



08 Dec 1993

The Missouri Miner, December 08, 1993

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Missouri Miner



A publication of the students of the University of Missouri-Rolla

December 8, 1993

Volume 83, Number 14

Twenty pages

New RA's wanted for 1994-95

Fall 1993 Missouri Miner Staff

Two Met students receive scholarships



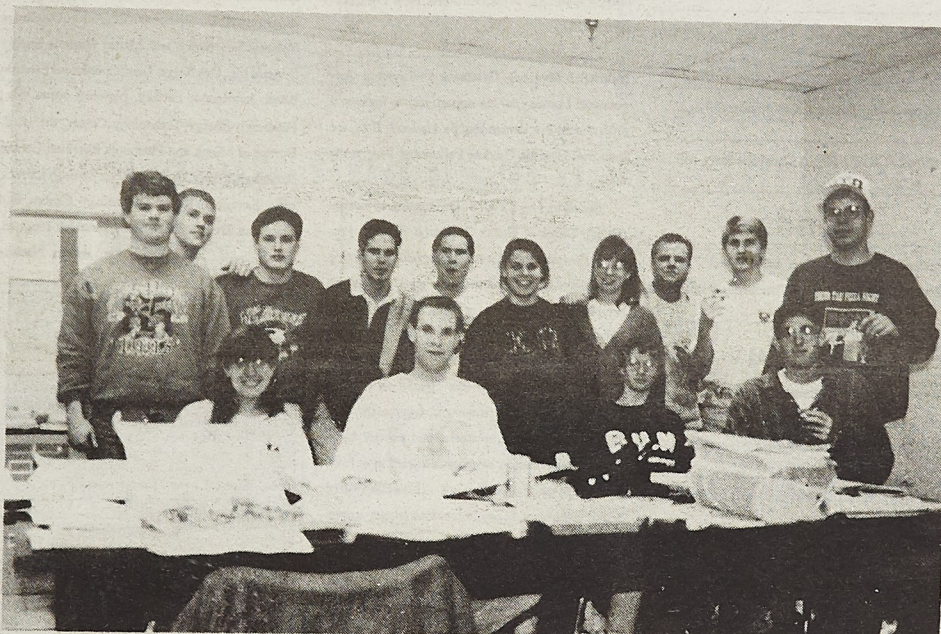
News Services
SOURCE

March 4, 1994 is a big day for UMR's Residential Life Department, because that's the day next year's resident assistants (RA's) will be chosen. Through a selection process known as "carousel" the department will test and interview sixty qualified candidates for the thirty RA positions available at T.J. and the Quad.

Applications to be an RA are currently available in the Residential Life office (104 Norwood Hall). Anyone who will have at least two semester of coursework and 2.40 cumulative GPA after next semester is eligible to apply. The position offers free room and board, a modest stipend, and much more...

The resident assistants have a very unique job. They are responsible for providing social and educational activities for students, enforcing discipline within the halls, helping and guiding residents, and generally being

see RA, page 16



Brett Saunier

The Missouri Miner staff for the Fall 1993 semester: front row (left to right); Francine Belaska (Managing Editor), Jim Ockers (Copy Manager), Jody Luksich (Features Editor), Jeff Lacavich (Editor-in-Chief); Back row (sort-of left to right); K.C. Snyder (News Writer), Brett Saunier (photographer), Mike Matthews (News Editor), Scott Davidson (Advertising Director), Jason Hansen (Photo Editor), Angie Passanise (Sports Writer), Elizabeth Kladuson (Assistant Features Editor), Christopher Goo (Business Manager), Andy Dooley (Assistant News Editor), Joe Hornburg (Sports Editor).



News Services
SOURCE

Rolla, Mo. — Two metallurgical engineering students at the University of Missouri-Rolla received competitive scholarship awards during the Foundry Educational Foundation College Industry Conference recently held in Chicago.

The students are seniors John Munro of Oregon, Mo. and Wade Schott of Topeka, Kan.

According to Dr. Donald R. Askeland, Distinguished Teaching Professor of metallurgical engineering at UMR, the award criteria is based on scholastic record, summer and cooperative employment experiences, a written essay and interest in metals casting. More than 100 students from 28 colleges and universities in the United States took part in the competition.

Munro received the Burleigh E. Jacobs award, a George W. Mathews

see Met, page 16

Student Curator finalists announced

Three finalists have been chosen to fill the student curator position on the Board of Curators. The candidates that have been selected to meet with the Governor are:

- Guyatri Bhatt - a sophomore in Management Systems
- Joshua Grove - a sophomore in Mechanical Engineering
- Andrew Sears - a junior in Electrical Engineering

These finalists will meet with Governor Carnahan over break at which time a final decision will be made. The position is a two year term and will begin January, 1, 1994.

Dear Graduating Seniors,

Mrs. Park and I would like to invite you and your guest to a reception following graduation. The reception will be held Saturday, December 18, between 4:00 and 6:00 p.m. at the Chancellor's residence, 506 West 11th Street.

We look forward to celebrating your academic success with you.

Sincerely,

John T. Park
John T. Park
Chancellor

What's Up at UMR

Wednesday

4:30pm SMSTA Mtg., H-SS

5:00pm Stuco Student Activity Fee Board Mtg., Walnut

6:00pm UMR Solar Car Team Mtg. (fund-raising/publicity), G-4 Basic Engineering

6:00pm MSM Spelunkers Club Mtg., McNutt 204

6:00pm Eta Kappa Nu Mtg., 103 EE

7:00pm UMR Solar Car Team Mtg. (business/design), G-4 Basic Engineering

7:00pm UMR men's Basketball, Quincy University, Gale Bullman Multi-Purpose Building

7:00pm Miner Basketball vs. Westminster

7:30pm Society of Mining Engineers Mtg., 204 McNutt

8:00pm Starfleet Mtg., Maramec

8:00pm Volleyball Club Mtg., 208 ME

9:00pm Arnold Air Society Mtg., 208 Harris

Thursday

University of Missouri Board of Curators meeting, time to be announced, Columbia, Mo.

12:30pm Newman Scripture

4:30pm Keramos Mtg., 212 McNutt

4:45 Toastmasters Mtg., Missouri

7:00pm Down to Earth Mtg., 210 McNutt

7:30pm Lutheran Student Center Bible Study

8:00pm St. Pat's Committee Mtg., 107C ME Annex

10:00pm Table Tennis Club Practice, Miner Rec

Friday

Last Day of Classes

University of Missouri Board of Curators meeting, time to be announced, Columbia, Mo.

1:30pm Christian Science Organization Mtg., Sunrise

5:00pm SUB MOVIE: The Muppets Christmas Carol (family Show) Me 104

6:30pm Show-Me Anime Mtg., 204 McNutt

7:00pm SUB MOVIE: The Muppets Christmas Carol, ME 104

7:00pm UMR women's basketball, College of the Arts, Gale Bullman Multi-Purpose Building

8:00pm SUB concert, "Lady Sings the Blues," Leach Theatre

9:00pm SUB MOVIE A Christmas Story, ME 104

9:00pm Delta Sigma Theta Reception, Centennial Hall West

Saturday

12:00pm Gaming Association Gaming, 139 Chem

1:00pm UMR swimming, University of Missouri-St. Louis, UMR Pool

5:45pm UMR women's basketball, Illinois College, Gale Bullman Multi-Purpose Building

7:00pm SUB MOVIE: The Muppets Christmas Carol, ME 104

7:45pm Miner Basketball vs. Illinois College

9:00pm SUB MOVIE: A Christmas Story, ME 104

Sunday

2:00pm University Choir and Orchestra Annual Christmas Concert, Leach Theatre, Castleman Hall

Monday

Grade sheets to departments

7:30am Final Examinations begin

12:00pm University Orators Chapter of Toastmasters International, UCE

Tuesday

5:00pm International Student Club Mtg., Walnut

Financial Aid

The Missouri-Beta Chapter of the Tau Beta Pi Association, a national engineering honor society, is currently accepting applications for its fall scholarships. These scholarships are awarded to students who have demonstrated outstanding potential in the field of engineering during their freshman year. Applicants should meet the following criteria:

- Be currently enrolled at UMR
- Be a full-time undergraduate engineering student (Engineering Management and Engineering Mechanics students are also eligible)
- Have completed between 30 and 59 credit hours
- Have a minimum 3.5 cumulative GPA

Forms are available in the Financial Aid office. The deadline is December 17, 1993

Owing Mills, Maryland (USA) - The National Library of Poetry has announced that \$12,000 in prizes will be awarded this year to over 250 poets in the North American Open Poetry Contest. The deadline for the contest is December 31, 1993. The contest is open to everyone and entry is FREE.

Any poet, whether previously published or not,

can be a winner. Every poem entered also has a chance to be published in deluxe, hardbound anthology.

To enter, send ONE original poem, any subject and any style, to The National Library of Poetry, 11419 Cronridge Dr., P.O. Box 704-ZT, Owings Mills, MD 21117. The Poem should be no more than 20 lines, and the poet's name and address should appear on the top of the page. Entries must be postmarked by December 31, 1993. A new contest opens January 1, 1994.

1994 BMI STUDENT COMPOSER AWARDS COMPETITION OPENS: FIRST BOUDLEAUX BRYANT PRIZE TO BE AWARDED

Official rules and entry blanks are available from Ralph N. Jackson, Director, BMI Student Composer Awards, 320 West 57th Street, New York, NY 10019, USA.

Industrial Hygiene Graduate Fellowship Announced. Looking for the opportunity to become a professional in a demanding profession? If so, the Industrial Hygiene Graduate Fellowship Program is for you!

Sponsored by the U. S. Department of Energy (DOE), Office of Health, Industrial Hygiene Programs Division, the fellowship program is accepting applications for the academic year beginning September 1994. The deadline for applications is Jan. 31, 1994.

The need to ensure healthful conditions in the workplace for employee has created an unprecedented demand for industrial hygienists who anticipate, recognize, evaluate, and control those environmental factors or stresses arising in or from the workplace that may cause sickness, impaired health, significant discomfort, or inefficiency among workers.

The primary goal of the fellowship program is to increase the number of industrial hygienists at the master's degree level to help ensure healthful working conditions for employees of DOE laboratories and facilities throughout the United States. Other program goals include increasing the visibility of industrial hygiene profession, and strengthening ties between DOE and the academic community.

Administered by the Oak Ridge Institute for Science and Education (ORISE), appointments in the Industrial Hygiene Graduate Fellowship Program are for 24 months. Fellows are required, however, to submit a renewal application at the end of the first 12 months. The program pays an annual stipend of \$15,600 in 12 monthly payments of \$1,300, an academic allowance of \$1,500 annually, and full tuition and fees.

The U. S. Department of Energy's Student Research Participation Program (SRP) is offering undergraduate students the chance to spend 10 weeks next summer collaborating with federal scientists on the cutting edge of research and development.

Only one of several programs offered through DOE's University/Laboratory Cooperative Program and managed by the Oak Ridge Institute for Science and Education, the SRP is for sophomores, juniors, and seniors majoring in engineering, physical and life sciences, mathematics, computer science, or social sciences.

With direction from researchers at major DOE

facilities, students conduct hands-on research using state-of-the-art equipment not usually found in most campus laboratories. Projects relate to individual academic majors, career goals, and the ongoing research and development of the facility.

The instruction and training SRP participants receive is designed to provide them with a keen perception of energy production, use, conservation, and societal implications. Assignments afford students the opportunity to apply and practice theories and methods learned in the classroom.

Students are selected by the DOE facility staff on the basis of academic record, aptitude, research interest, and the recommendation of instructors. Participants must have the potential for graduate study and scientific careers.

Participating DOE facilities include the Atmospheric Turbulence and Diffusion Division, Oak Ridge Institute for Science and Education, Oak Ridge National Laboratory, and Martin Marietta Energy Systems Inc., Oak Ridge, Tenn.; Continuous Electron Beam Accelerator Facility, Newport News, Va.; Pittsburgh Energy Technology Center, the U. S. Bureau of Mines, and Pittsburgh Research Center, Pittsburgh, Penn.; Savannah River Ecology Laboratory, Savannah River Technology Center, and Savannah River Archaeological Research Program, Aiken, S. C.; and Triangle Universities Nuclear

Laboratory, Duke University, Durham, N. C.

Certain travel expenses are reimbursed, and stipends of \$250 per week for seniors, \$225 per week for juniors, and \$200 per week for sophomores will be paid to participants.

The application deadline is Jan. 18, 1994. For application materials or additional information, please contact Pat Pressley at (615) 576-1083 or the Student Research Participation Program, Science/Engineering Education Division, Oak Ridge Institute for Science and Education, P.O. Box 117, Oak Ridge, Tenn. 37831-0117.

The Oak Ridge Institute for Science and Education (ORISE) carries out national and international programs in science and engineering education, training and management systems, energy and environment systems, and medical sciences. ORISE conducts these programs for the U. S. Department of Energy through a management and operating contract with Oak Ridge Associated Universities (ORAU). Established in 1946, ORAU is a multiuniversity consortium.

FEDERAL FINANCIAL AID* APPLICATION FOR THE 94/95 ACADEMIC YEAR.

see Aid, page 15

Missouri Miner

The Missouri Miner is the official publication of the students of the University of Missouri-Rolla. It is distributed each Wednesday afternoon at Rolla, Missouri and features activities of the students of UMR.

All articles, features, photographs, and illustrations published are the property of the Missouri Miner and may not be reproduced or published without written permission.

The Missouri Miner encourages comments from its readers, and will attempt to print all responsible letters and editorial material received. All submissions must have a name, student ID number, and phone number for verification. Names will be withheld upon request.

Submissions for publication must be in our drop box (first floor of the Norwood Hall, Room 103) by 4:30 p.m. on the Thursday before publication. Submissions, not including personnel, will be accepted through E-mail (Internet) at MINER@UMR.EDU. The Missouri Miner reserves the right to edit all submissions for style, grammar, punctuation, spelling, length, and matters of good taste.

The Missouri Miner is operated by the students of UMR and the opinions expressed in it do not necessarily reflect those of the university, faculty, or student body.

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Oh yes,
we do recycle!
Please do the same!

Opinions

ATTENTION: Co-op Students

Registration for students with Co-op employment beginning Spring 1994 begins:

WHEN: December 6-17, 1993
WHERE: 303D Norwood Hall
Co-op office
FEE: \$91.10

Have a Wonderful Work Session!

UPDATE DISKS AT CAREER OPPORTUNITIES CENTER

All students who will be participating next semester in on-campus interviews or resume referrals to obtain summer, co-op or full-time employment are reminded that they will need to update their application disks once they have received their fall semester grades.

Students registered last semester, except for summer jobs, will be blocked on Monday, January 3. The COC will start loading updated disks on Tuesday, January 4. It is highly recommended that those wanting career-related summer positions also update, but they will not be blocked.

Resume revisions, including GPA, current classes, additional work experience, as well as any changes in address and phone, are especially important. It is a good idea to screen through the entire disk to make sure all information is up to date and accurate. This may be done on any IBM/compatible computer before bringing it up to the Career Opportunities Center to be loaded into the system.

There is no fee and updated disks may be dropped off over the holidays. Students who have not registered before will need to purchase the \$5 pre-programmed application disk in the Career Opportunities Center.

STUCO helps students find used books through other students

8087 Applications & Programming

Asking Price: \$2
 Call B. J. Shrestha 341-3883 or 341-6551

A Writer's Reference

Asking Price: \$10
 Call Roger Petty 341-9642

A People and A Nation I

Asking Price: \$25
 Call Andrew Barnes 341-8785

Calculus, 4th Edition

Author: Larson/Hostetler/Edwards
 Asking Price: \$50
 Call Matt Benz 341-8654

A First Course in Differential Equations

Asking Price: \$25/\$30 w/supplement
 Call Erin McLaud 364-9384

Adolescence, 3rd Edition

Asking Price: \$35
 Call Vernon Smith 341-9076

All Grown up and No Place To Go

Author: Elkind
 Asking Price: \$7
 Call Vernon Smith 341-9076

American Government, 5th Edition (Pol.Sci.90)

Author: James Q. Wilson
 Asking Price: \$27.50
 Call Jason Cumming 341-8722

American Government

Asking Price: \$35
 Call Daryl Andershock 368-2842

American Government

Asking Price: \$35
 Call Andrew 341-8141

Analytic Mechanics

Asking Price: \$45
 Call Scott Miller 341-8993

Applied Industrial/Organizational Psychology

Author: Aamodt
 Asking Price: \$30
 Call Vernon Smith 341-9076

Astronomy Today

Asking Price: \$33
 Call Scott Miller 341-8993

Basic Oral Communication

Asking Price: \$20
 Call Joe 341-8951

Basic Exploration Geophysics

Asking Price: \$50
 Call T. Scott 368-5576

Basic Circuit Analysis

Asking Price: \$45
 Call Bret 341-8951

Basic Principles & Calculations in Chem. Engr. 5th Ed.

Author: Himmelblau
 Asking Price: \$50
 Call Vernon Smith 341-9076

Basic Circuit Analysis

Author: Cunningham/Stuller
 Asking Price: \$35
 Call Erin McLaud 364-9384

Behavior Modification

Asking Price: \$20
 Call David Hamlin 341-9111

Calculus & Analytic Geometry

Asking Price: \$20
 Call David Hamlin 341-9111

Chem 4 OSHA Set

Asking Price: 80% off Bookstore's price
 Call Erwin Wardojo 341-8634

Chemistry..(Oxtoby, et al - Chem 1,3)

Asking Price: \$30/negotiable
 Call B. White 341-8785

Civilization in the West, Annual Editions, & all Quiet on the Western Front (Hist. 112)

Asking Price: \$25/negotiable
 Call B. White 341-8785

Coal Mining Technology

Asking Price: \$25
 Call David Hamlin 341-9111

Compilers: Principles, Techniques, & Tools

Asking Price: \$35
 Call Kevin Chen 368-3891

Computer Graphics: Principles & Practice

Asking Price: \$40
 Call Kevin Chen 368-3891

Computer Controlled Systems

Author: Astrom
 Asking Price: \$10
 Call B.J. Shrestha 341-3883 or 341-6551

Design of Computex Data File

Author: Hanson
 Asking Price: \$5
 Call B. J. Shrestha 341-3883 or 341-6551

Drafting Technology

Author: Earle
 Asking Price: \$10
 Call Vernon Smith 341-9076

EE 281

Asking Price: Negotiable
 Call Clay Cooper 341-3657

Elementary Partial Differential Equations

Asking Price: \$45
 Call Scott Miller 341-8993

Elements of the Theory of Computation

Asking Price: \$55
 Call Joe 341-8951

Engineering Graphics 10-UMR-BE

Asking Price: 50% off Bookstore's price
 Call Erwin Wardojo 341-8634

Engineering Mechanics-Statics, 4th & 5th Ed.

Author: Hibbeler
 Asking Price: \$20
 Call Vernon Smith 341-9076

Experimental Methods for Engrs: ME 240

Asking Price: \$30
 Call David Welsh 364-7121

File Organization for Database Design

Asking Price: \$40
 Call Joe 341-8951

Fluid Dynamic-Schaum's Outline

Asking Price: \$5
 Call Vernon Smith 341-9076

Fortran 77

Author: Alpert
 Asking Price: \$2
 Call B. J. Shrestha 341-3883 or 341-6551

Fortran IV with Watfor & Watfiv

Author: Cress et al
 Asking Price: \$2
 Call B. J. Shrestha 341-3883 or 341-6551

Hibbeler Eng. Mech. Statics w/disk

Asking Price: \$45
 Call Keith Blackford 341-9665

Introduction to Operations Research

Asking Price: \$50
 Call Paul Hirtz 364-0760

Introduction to Logic-Study Guide

Asking Price: \$5
 Call Roger Petty 341-9642

Introduction to Logic

Asking Price: \$15
 Call Roger Petty 341-9642

Introduction to Probability & Math. Statics,

Asking Price: \$42
 Call Edward Joe 368-4846 2nd Ed.

Introduction to Optics

Asking Price: \$50
 Call Scott Miller 341-8993

Macro Econ 222B

Asking Price: Negotiable
 Call Clay Cooper 341-3657

Management (211)

Asking Price: \$37
 Call Paul Hirtz 364-0760

see Books. page 12

"Smart" structures being developed at UMR



News Services
SOURCE

University of Missouri-Rolla are combining new materials and intelligent computer systems to develop "smart structures"—materials that can adjust their physical properties to fit changes in their environments.

The research could lead to systems that learn, repair themselves and warn their human creators of defects in their operation. Such smart structures could lead to automobiles that repair themselves, making fender-benders less of a bother; roads and bridges that can "tell" engineers about hidden defects; and skyscrapers that control, rather than resist, the dangerous vibrations of an earthquake.

These intelligent materials are the focus of more than \$1.8 million in research projects under way at UMR's Intelligent Systems Center (ISC).

"There are so many possibilities for smart structures; we've only scratched the surface," says Dr. Vittal S. Rao, professor of electrical engineering at UMR and director of the ISC. The ISC is made up of researchers from a variety of disciplines —



Jason Hansen

Dr. Rao, director of the ISC, tells us about the importance of smart structures.

civil, electrical, mechanical and metallurgical engineering, as well as engineering management and computer science — who incorporate computer and process-control technology in re-

search designed to improve manufacturing and management methods.

According to Rao, there are two aspects to smart structures research: Developing the materials, and devel-

oping systems to monitor and control how they behave.

"We are trying to integrate structural engineering, dynamics, control theory and our knowledge of sensors

and artificial intelligence with the materials aspects of smart structures," Rao says.

The materials, Rao says, get their "smartness" from computerized sensors and actuators imbedded in them. These sensors, like the nerves in human bodies, respond to changes in the environment and relay that information to a computer system. That system, like a human brain, then controls how the material reacts to external conditions.

One ISC research project — a joint venture between U.S. and Korean researchers to develop a method to control building vibrations in earthquakes — could lead to buildings that rely on extensive networks of sensors to detect motion and then react to the unpredictable rolling of an earthquake. Just as a dancer continually returns to her center of gravity, a building wired with one of these networks would strive to maintain its "sense of balance." The sensor network might carry information from seismic vibration to a central computer, which in turn would analyze the data and program massive weights beneath the building to counterbalance the movement of the earthquake.

see Smart, page 16

Faculty Spotlight on: Dr. Matt Insall



Ian Rozdlsky
Staff Writer

This week's faculty feature is on Dr. Matt Insall of the Department of Mathematics and Statistics. He is currently teaching Math 204 and Math 208 along with his research. He originally grew up near Houston, Texas in the small town of Needville. In Needville, he lived on 25 acres and cared for various dogs, cats and pigs in a rustic lifestyle. After completing his junior year in high school he proceeded to the University of Houston in 1979, which had a much more metropoli-

tan atmosphere. From the University of Houston he completed a B.S. in Math in 1985 with a Chemistry minor, and in 1986 completed a B.S. in Chemistry. He then finished his Masters degree in 1987 and his PhD in Mathematics in 1989. In August of 1989, he came to UMR and has been here since.

Dr. Insall is currently conducting joint research with the Computer Science Department in exotic logic systems for verification of distributed computing systems. On a simplified level the problem breaks down to trying to use several computers on the same problem. This could lead to having an array of smaller computers being able to solve problems as fast as a larger more expensive computer.

Some of Dr. Insall's hobbies include reading science-fiction, and playing the french horn. He also sings, but I guess not in the classroom. When asked about Rolla, he

said that it falls in between where he grew up and where he went to college.

His hometown was smaller, but University of Houston was larger.

When he started college he was originally in chemistry planning on going to medical school, this is quite different than mathematics. When studying chemistry, he had to take math courses in order to understand some of the more complex topics in chemistry, and he found out that he enjoyed the math courses more than the chemistry courses. While taking chemistry he was drawn to the science and art that mathematics is. One quote Dr. Insall is fond of, which I think says a lot about mathematics and the mind set of mathematicians, is: "Don't try to be understood, but try to be impossible to misunderstand."

Feeble passwords may spell your doom!!



News Services
SOURCE

A "feeble" password, on your computer account, is one that can be easily guessed. There are only 18,262 combination of date passwords (YrMoDy) for students 18 years old to 68 years. If you choose a combination of upper case, lower case, and numbers that is six characters long, the combination of passwords available is now 304,006,671,420 (provided they are not words in the dictionary). For example, "eZ2bLz" is tough to guess, but sounded out, easy to remember ("easy to be lazy").

Why the big deal about "feeble" passwords? Let's say I am a bad guy and want to get you in trouble. I could guess your password and send e-mail flames to your department Chair saying that he/she is a "stupid fool" and

ought to resign. That should get you an appointment real quick! Or even better, I could send e-mail to the registrar saying your mother and father got killed in a car wreck and please withdraw you from all classes as you won't be here to take finals. Did I get your attention yet?

Probably the biggest reason to have "secure" passwords is so others don't play with your files and tie up computer time. If everyone wants to have their computer account available to them when they need it, it is vital that the system is not tied up with a bunch of stuff running that doesn't need to be.

If you have more than one computer account, or logon to area BBS's you should not use the same password on more than one system. Using a combination of letters and numbers with the most length possible makes it more difficult to guess. Changing your password often provides even more security.

Here are the commands to change your password:

Saucer.....kpasswd (is case sensitive)
MCS 213 Unix.....passwd (is case sensitive)
UMRvma.....dirm pw (not case sensitive)

Features

Laurie Wilman

The life and times: A Christmas tale

Once upon a snowy evening, many, many Christmases ago, the Good King Wenceslas decided to throw a party. It was a magnificent affair, with all the best known celebrities from the Christmas world (as well as the ordinary citizens of the kingdom) filling a dazzlingly decorated hall and munching on all the best little wienies that the countryside had to offer. Carol (of the Bell, of course) and Harold (the famous angel) entertained everyone with their beautiful music, while the story of Rudolph saving Christmas was told at least a dozen times by Santa himself. The fairies (no lewd comment, please) led the dancing, and even the toy soldiers loosened up for a bit. It was all very grand, and a good time was being had by all.

Sometime during the course of this wonderful evening, however, things began to change. It wasn't very noticeable at first, but then finally, events just got out of hand. Carol and Harold (the now infamous angel) were huddled off in a corner under a very large sprig of mistletoe, the abominable snowman (I told you everyone was there) stepped right on top of the huge Christmas tree, the reindeer were drinking straight from the punch bowl, and Jack Frost looked like the eggnog had done quite a bit of nipping on his own nose. The little girl who was getting nuttin' for Christmas decided that she surely

didn't have anything to lose and was now flirting with all of the elves (even the one misfit who wanted to be a dentist: hey, she knew where the money was), while the three kings from the Orient tried to corner Frosty near the fireplace so their camels could get a drink. It was a torrid affair.

Suddenly, a deep, booming voice was heard. "Stop!" It was dear old Wenceslas, the host of this once-awesomely-now-awful gala. "Stop! Can't you see what you're doing?"

At this, the hall began to quiet and everyone (including Carol and Harold) halted in their tracks and came to the attention of their great king. A hush fell over the crowd.

The king drew himself up and began to speak. "Friends, citizens, fellow lovers of Christmas, lend me your ear. I brought you all here so that we could celebrate a wonderful event, a glorious season, and wondrous time, yet you have turned it into a greedy and self-serving eve." At this, Carol blushed, and Harold hid beneath a tarnished wing. "This is a time of joy, of happiness, of generosity and good-will to everyone you see. This is a time of gladness, of celebration, of counting each one of our blessings upon the millions of stars in the sky. We should be reaching out to those around us, our friends, our neighbors, our family, and, especially, those who have none. That was why I invited the entire kingdom to this gala, to share in the wealth of this

great region, to share in the joy that it brings to all. I have heard myself called the Good King, and to that, I take great pride, yet if my own people cannot share with me this feeling of jubilation and love for even a small part of the year, I feel as if I have failed." The king bowed his head sadly for a moment, and then resumed. "Now, I know in my heart that each one of you has it inside of you to be the personification of this season. Why don't you show it?"

For what seemed like an eternity, the hall was silent; no one dared breathe while contemplating this sobering thought. Then, as if from heaven itself, a small, clear voice began to sign. It was the little girl who was getting nuttin' for Christmas. The guilt for all that she had done forced her tiny vocal chords to make some sort of reparation for it all (yes, even for breaking her bat on Johnny's head). Soon, the entire hall had joined in and the enchanting chorus of "Silent Night" filled the king's heart with so much warmth and peace that he soon added his own melodious voice into the song.

That night, every person in the land breathed a little easier, feeling the weight of stress, self-service, greediness, and avarice lifted from off of their chest. The season felt a little brighter, the gift-buying wasn't such a chore, and all in all, it was the best Christmas ever. And, of course, they live.

SUBConscious

Scholars call it roots music. Everyday folks prefer to call it the blues. Friday, December 10 there will be a virtual explosion of the blues in Rolla—Chicago style. Katherine Davis moves the audience to dance the night away with her keen sense of showmanship as she mixes her programs with heartfelt blues, gospel and jazz. Sidney James Wingfield is phenomenal on the keyboard as he adds even more power and soul to Davis' performance. The result of their talents can best be described as 'cool and hot, naughty and nice.'

Leach Theater at Castleman Hall. Tickets will be at the door the day of the performance. Advance tickets will be available starting December 6 in the Student Union Board office, located just above the deli in University Center-West. As always, student tickets are free with a valid ID and public tickets are \$3 each.

Congratulations go to the newest member of our Board of Directors. Our new Fine Arts Director, Steve Weber, joins in the ongoing effort to bring quality entertainment to Rolla. SUB wishes him luck. If you would like to



Have a Muppet Christmas!

Davis has received wide acclaim as Bessie Smith and Ma Rainey in the Kumba Theater production of In The Heart of the Blues. Her other credits include the 1985 Montreal Jazz festival and the 1986 and 1990 Chicago Blues Festival. Wingfield has played more than 25 years throughout the United States, Canada and Europe as a major keyboard artist and vocalist. He has also had keyboard recording sessions with Son Seals, Mick Jagger, and Luther Allison. The student Union Board is proud to present this blues duo of the highest caliber.

Davis and Wingfield will perform Friday, November 10 at 8 p.m. in

come join the fun, SUB is still looking for a Vice President of Publicity. If you have been on a committee for a semester or more and are interested in the position, come up to the SUB office and let us know.

In closing, the Student Union Board wants to wish you a Merry Christmas with a couple special movies. This Friday and Saturday feature The Muppet Christmas Carol and A Christmas Story at 7 and 9 p.m. respectively. We'll also have a special showing for families at 5 p.m. on Friday. Students, staff, and faculty are welcome to bring their spouses and children.

RESIDENTIAL LIFE RECOGNITION



Residential Life SOURCE

The Residential Life Department is pleased to announce the Staff/Leader of the Month for the month of October. Each month the residential life central staff vote on staff/leader candidates of the month. The criteria for receiving this award include outstanding service to residents in programs and activities.

Central staff this month are pleased to recognize Brenda Wieseler an RA at the QUAD and Kevin Solofra the RHA Fundraiser for outstanding service for their residents. We would like to thank them for a job well done and for their commitment to the students living in the residence halls.

Next month we will once again recognize outstanding

Lambda Chi Alpha: Brothers Feeding Others

Indianapolis — (November 8, 1993) — On Saturday, November 6, Lambda Chi Alpha Fraternity completed the largest single-day fraternity philanthropic project by collecting 227,646 pounds of non-perishable food for needy families in communities through the United States and Canada. The total amount of food collected is expected to increase, as 15% of the participating chapters still have not reported.

"Brothers Feeding Others" was the theme of the 1993 North American Food Drive which involved the efforts of more than 8,000 members of Lambda Chi Alpha for the benefit of those in need.

While college fraternities endure more than their share of criticism, the charitable work of the young men of Lambda Chi Alpha Fraternity exemplifies the many positive attributes of fraternities. "We're showing what Lambda Chi Alpha really stands for—thousands of fraternity

men, out in their communities, helping those who are less fortunate," said Thomas A. Helmbock, Executive Vice President for Lambda Chi Alpha Fraternity.

The Lambda Chi Alpha chapter at the University of Missouri at Rolla was

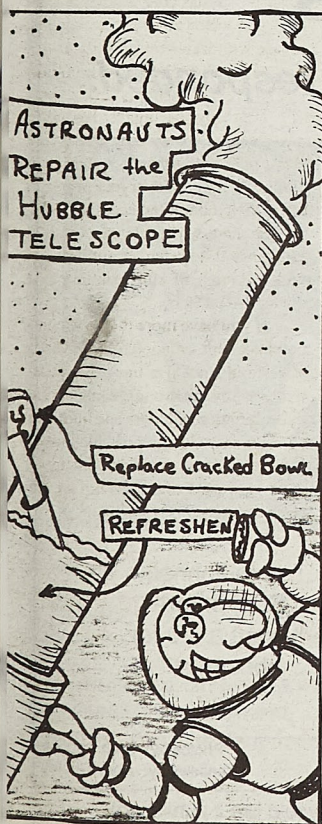
neighborhoods near the campus. The non-perishable food collected by the members of Lambda Chi Alpha will be donated to a local charity, which in turn, will distribute the food to needy families within the immediate area.

The food drive by the chapter at the University of Missouri at Rolla was part of an international effort involving more than 150 Lambda Chi Alpha chapters from Quebec to California. The food collected by the local Lambda Chi Alpha chapter contributed to an overall total of 227,646 pounds of food raised on Saturday. All of the donated food will be given to charities in the community of each Lambda Chi Alpha chapter.

Lambda Chi Alpha is one of the largest men's general fraternities in North America, with 221 chapters and colonies and more than 208,000 initiated members since founding.



a big contributor to this record-breaking project. The member of Lambda Chi Alpha at the University of Missouri at Rolla collected 750 pounds of food from donations received from



Captain Goatee's Weekly Review



Captain Goatee
Staff Writer

Well folks, it's the end of the semester. The big "last issue" until next semester. This semester has been a good one for music lovers. Among the surprises were the latest albums from Thrill Kill Kult, Uncle Tupelo, Smashing Pumpkins, and the Sweet Relief album. So fill out your Christmas lists if it isn't too late. (A list of the best (and worst) albums I've reviewed this semester follows the reviews.)

For those interested in supporting causes and also getting some obscure tracks might look into the Peace Together, No Alternative, and In the Defense of Animals collections. They feature a broad range of styles and lots and lots of unreleased tracks.

This Week: The Lemonheads, The Geyer Street Sheiks, and first... The Lady's of Philo/Rounder Records. (The promised Sidio and Hall feature will appear next semester...)

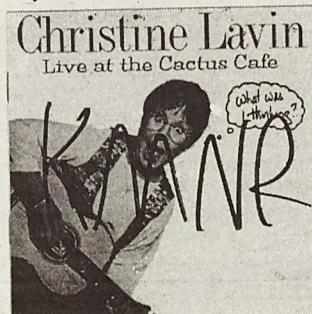
Album Review

Christine Lavin
Live at the Cactus Cafe ("What was I thinking?")
10 goatees

Kristina Olsen
"Love, Kristina"
8 goatees

Cheryl Wheeler
Driving Home
10 goatees
Philo Records (1993)

Well, well, well. Philo/Rounder records has done it again. This semester, they've released three of the best female singer/songwriter albums I have ever heard. Combine these ladies with Philo's last Katy Moffatt album and the upcoming Carrie Newcomer album, and you will find that Philo/Rounder Records has solidified itself as the best source for female contemporary folk artists.



But don't let the word "folk" scare YOU off. These aren't kumbaya singalongs. We're talking about beautiful voices, skillful instrumentation, and music 20 times better than you'd find on either VH-1 or the Country Channel. These ladies are the real thing. They write their own music, play their own instruments, and tour throughout the year at small clubs everywhere.

Christine Lavin's latest, Live at the Cactus Cafe, stands out as one of the funniest albums I've ever heard. Unlike the "Four Bitchin Babes" album (a studio album which never really came alive for me), Live at the Cactus Cafe exposes Lavin as master of the live performance. She stops songs to add commentary, ad libs when people shout out the punch lines, and talks about that dreaded day when Sharon Stone joined her health club.

Except for the few serious songs, Live at the Cactus Cafe plasters a full grin on my face for a full hour. Along with Jane's Addiction's first album, this is probably the best live album I have ever heard. (This is also probably the first and only time Lavin has ever been compared to Jane's Addiction!)

Kristina Olsen released her second album on Philo earlier this semester. "Love, Kristina" is a collection of songs that range from slow pieces in 3/4 time to jazzy, "beat folk." Although I like this album a lot, some songs miss their mark a bit. "Keeping This Life of Mine (Song for Battered Women)" has its heart in the right place, but the song's arrangement is over-done. Kristina sings it above her normal register, and it doesn't flow with the rest of the album.

On the other hand, there are a number of songs on "Love, Kristina" which I consider perfect songs. "Hard Day Yesterday," "This Bed of Ours," and "Live Man in the Dead of Night" can only be described as the perfect combination of woman's voice, jazz ensemble, and bluegrass. An odd de-

scription, but I don't know how else to describe the lazy bass and guitar and a sax which rolls down your neck and massages your spine. Olsen's voice is layered over top and is intoxicating like chocolate syrup on chocolate ice cream.

Cheryl Wheeler rounds out the Philo trio with a more country sound on Driving Home. Her last album, Circles and Arrows, had some good songs, but I personally found the sound to be overproduced. The added instruments and studio tricks gave the music a fake, "commercial" country feel. I like to call it the "Nashville cookie cutter country effect." Maybe it was just the major label influence.

This time around with Philo, Wheeler gives us even better songs and a considerably better sound. As with Katy Moffatt's latest Philo album, Driving Home features a country sound which is fresh, upbeat, and balanced. Instead of songs filled with cliches, Wheeler delivers heartfelt lyrics and melodies made for singing along. She even lets a bit of her funny stage act in with "Don't forget the Guns." It features the chorus line "We don't look for trouble but by golly if we're in it, it's nice to know, we're free to blow 900 rounds a minute."

Hopefully, I can get Luce at the Blue Heron to book these ladies, but until then, I'd say go buy all three albums. If you're on a limited budget, then pick based on your specific tastes. If you go for funny folk, find Christine Lavin's live album. If you prefer mellow folk and jazz, then pick up "Love, Kristina"

from Kristina Olsen. If you lean more towards a country sound, then it's Cheryl Wheeler's Driving Home. With these three, you just can't go wrong. (If you can't find these albums in stores, try ordering through Soundtracks or Universal Harmony. Or, write to Rounder Records, One Camp Street, Cambridge, MA 02140.)

Album Review

Geyer Street Sheiks
Great Dream
Bjam Records (1993)
10 goatees

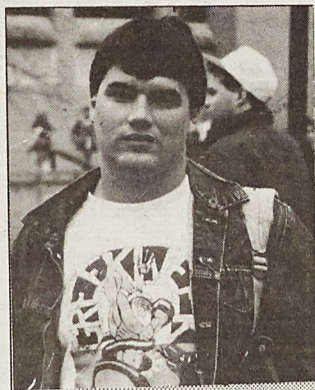
Ever heard of this band? If you haven't, now is your big chance to strike gold. In the latest Riverfront Times, the Sheiks were voted the "Best Local Folk Artist/Band." In two years, the Sheiks have risen fast. They've proven to be the cream of their music crop. Formed many moons ago, the Sheiks held a reunion concert a while back. "Legend" has it that the reunion went so well that the band decided to stick together. One of the blues must have been the addition of Alice Spencer. Formerly of the alternative act, Three Merry Widows, Spencer has shown to have the soul of Bessie Smith cradled in her voice.

The sound of the Geyer Street Sheiks is one which I'm sure many have dreamed of finding. Along with Spencer, six of St. Louis' best folk and blues artists have crafted a mix which

see Goatee, page 13

UMR opinions on campus

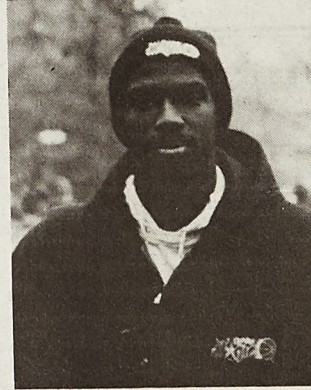
When asked what they wanted for Christmas, these students responded:



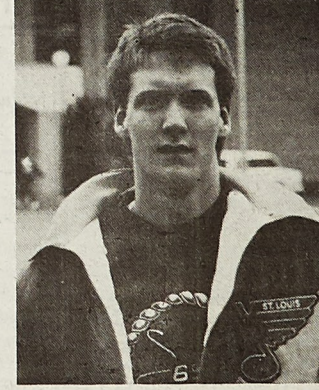
Jim Boyanchek
Senior
"I want to graduate."



Matt Spaunhorst
Senior
"A new car."



Steve Beattie
Freshman
"I'd like a good grade on my test."



Torino Johnson
Sophomore
"I want a 4.0 for christmas."

Photos by: Brett Saunier
Interviews by: Andy Dooley

Have a question for UMR Opinions on Campus? Put it in the Miner Dropbox, room 103 Norwood Hall, with your name (if you'd like it published).

Sports

Miners top Quincy College Road trip goes good for Lady Miners

Aaron Boyle
Staff Writer

Though second half defense helped the Miners pass their first true test of the season early last week when they locked horns with a strong Quincy College squad, coming out on top 88-87.

With Rod Jackson and Jamie Brueggeman battling the flu bug, UMR had a rough first half and never really got in sync. The Miners were dismal 2 of 10 from three-point land and were outrebounded 25 to 14 by Quincy in the first frame, with Quincy taking a 51-45 lead to the locker room.

The Miners came out ready in the second half, taking the lead for good at the 16 minute mark. A tough Miner D, led by Todd Weaver, forced Quincy into 14 second half turnovers. Weaver was all hustle on the defensive end, totaling four steals and six rebounds in the final 20 minutes. As a team, the Miners appeared to wake up as well. More help and hustle on defense sent

Quincy to the line only 8 times in the second half, compared to 17 in the first. A crucial state when QC shoots almost 75% from the charity stripe.

The big men again filled the points column for the Miners, with James Simmer leading the way with 22 (3 of 5 from three-point range). Brueggeman added 18, netting 12 in the first half to keep the Miners close. Jackson, Ryan Wade, and freshman Jeff Kokal each added 9 a piece.

As a team, UMR had an outstanding game from the field, shooting over 51%. However, the Miners continued their weak shooting from the free throw line, ending the contest at just over 46%. "I feel it's just a lack of concentration. We're a good shooting team, the field percentage shows that," said Coach Martin after the game.

Martin gave the team plenty of time to find that concentration in an all-free-throw practice last Wednesday. At press time, UMR was preparing to travel to the Colorado School of Mines Tourney. Let's hope the practice pays

Angela Passanise
Staff Writer

The 1993-94 basketball season has been going extremely well for the Lady Miners with their excellent record of 4-1. The Lady Miners increased their winnings during the weekend of November 26 by winning the Thanksgiving Classic Tournament at Texas Womens University. Their one loss came from tough competition against a Big Eight School- Kansas State University.

The Lady Miners first contest was against the Air Force Academy. Defense, was the key to this game, as UMR controlled the opponents. The Lady Miners forced the Air Force Academy into numerous turnovers, and with UMR's excellent shooting percentages we won the game 78-61. Coach Roberts said, "We took them out of their game offensively." Joe Kvetensky led the team with 13 points

while Tobi Rees was the high rebounder.

On November 27, the Lady Miners defeated Cameron University by the score of 81-62. Their offensive strategies picked up, this was shown by their high scoring. Once again, Joe Kvetensky led the team in scoring with 24 points while Katherin Kersten, Erika Nelson, and Chris Bohann were not far behind with 14, 10, and 10 points respectively. Coach Roberts said, "we held Cameron defensively forcing them into a lot of turnovers." Chris Bohann and Katherine Kersten led the team defensively each with 8 rebounds.

The final game of the road trip was very challenging as the Lady Miners competed against a Division I team, Kansas State University. It was expected that it would be a tough game as they faced some tough competition. The Lady Miners were not allowed much offense this was because Kansas State's physical and defensive style of play. The Lady Miners are not used to

this type of play but worked very hard for every offensive move they were allowed. Joe Kvetensky led the team with 10 points while the Lady Miners only had a total of 45 points. This game will teach the team how to play at higher level of competition and it will help the Lady Miners to be more competitive and hopefully more physical in their game playing.

The final record of the weekend ended with three games over .500. The Lady Miners are really off to an excellent start and hopefully their game winning will continue to increase into the new year. This past weekend the Lady Miners traveled to Edwardsville Illinois to play in the SIUE Tournament. Hopefully the team will come back with a record of 6-1. Good luck to the Lady Miners over the Christmas break as they compete in several games. On December 10th and 11th the Lady Miners will host their second and third home games, come out and support them as they face College of the Ozarks and Harding College.

Fort wraps up semester of bad picks

Brian Fortelka

Staff Writer

In Week #14 action, favorites fell and big play defenses rose to the occasion, making the last four weeks of the season even that more important. Here is a break down of the NFL through week #14.

NFC-Central: In Chicago, the Bears used a big play defense to outplay the Packers and grab a share of first place in the Central. Dante Jones scored on a 32-yard fumble recovery and added an interception that lead the new Monsters of the Midway to victory...The Lions were Barry Sandersless and that only meant good things to the Vikings as they shut out the Silver-Stretch and got in the thick of things in the Central...The Bears, Packers, and Lions are tied for first place with 7-5 records.

NFC-West: The Falcons invaded the Houston Astrodome on Sunday, only to find the Oilers and Warren Moon up for the challenge. The Oiler defense forced six Bobby Herbert interceptions and sent Jerry Glanville and company home big losers...The Saints Bobby Herbert was sacked nine times by the Brown defense and the Saint playoff hopes are dimming. Vinny Testaverde came off the bench to end the Browns losing streak at four

games...The Niners cruised over the hapless Bengals 21-8 to remain set for a division crown.

NFC-East: The Giants overpowered the Dolphins to remain on top of the East. The Giant defense knocked Old man Steve DeBerg out of the game with a gashed chin and totally set the tone for the game. The Giants appear to be set for the playoff run...The Skins actually got on the winning track, by beating up on the Bucs. Tampa Bay is always good to play to snap a long winning streak...The Cardinals led by Ron Moore pounded the Rams into submission. Ron Moore scored 4 touchdowns and rushed for 126 yards. This Pitt State product is the class of the NFC rookies.

AFC-East: The Bills, Dolphins, Jets, and Patriots all lost. The only winner out of the group was the mighty Colts. They were 9-6 winners over the Jets. That is one game to be remembered for all of eternity.

AFC-West: The Chiefs were led by former all-pro Marcus Allen and his 3 touchdowns to a 31-16 win in Seattle. The K.C. defense showed some life with Albert Lewis and Derick Thomas turning in big performances...The Chargers used a late drive to send the Broncos two games behind the Chiefs. John Camey kicked the game winner with three second left to lift the Bolts to victory over the Broncos...The Raiders

Tim Brown shocked to Bills in Buffalo to remain in tack for a playoff spot.

The playoff races are heating up, the season comes down to the last four weeks. Look for the Bears, Giants, Niners, Chiefs, Dolphins, and Oilers to wrap up their respective divisions. Here is the schedule for Week #15.

N.Y. Giants	at	Washington (Sat)
San Francisco	at	Atlanta (Sat)
Buffalo	at	Philadelphia
Chicago	at	Tampa Bay
Cincinnati	at	New England
Cleveland	at	Houston
Dallas	at	Minnesota
Detroit	at	Phoenix
Indianapolis	at	N.Y. Giants
Kansas City	at	Denver
L.A.Rams	at	New Orleans
Seattle	at	L.A. Raiders
Green Bay	at	San Diego
Pittsburgh	at	Miami (Mon)

Lock of the Week: Chicago at Tampa Bay. The Bears defense is in prime form and ready to demolish its next victim. The Bucs are simply not very good. The Bears win and go to the playoffs. Bears 24 Bucs 6

Upset Special: Dallas at Minnesota. The Vikings are making a playoff run. The Cowboys seem to be struggling of late. The purple people eaters want that cowboy blue.

Vikings 19 Cowboys 16

Miner Basketball Fan in the Stands



Jason Hansen

If this was you at the Men's basketball game with Quincy College, please stop by 103 Norwood Hall at 5:00p.m. this Thursday and pick up your prize for being the Miner Fan in the Stands!!!!!!

Rockets heat up NBA in Nov.

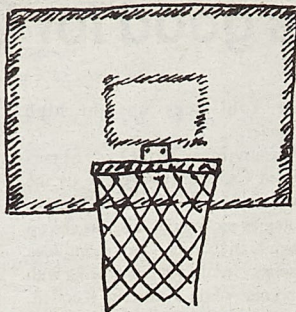
Glen Miller
Staff Writer

The Houston Rockets have been the NBA's hottest team for the month of November. The Rockets are unbeaten in 14 games going into a Thursday night battle at Madison Square Garden against the opening season winning streak. Accordingly, they cleaned house in the NBA individual awards for the month. Hakeem Olajuwon was named player of the month, averaging 25.4 points, 13.5 rebounds, and 4.1 blocks per game. For the Rockets efforts, Rudy Tomjanovich was named coach of the month.

Charles Barkley announced his NBA career is over at the end of this season. Second in the league in scoring, Barkley told The (Phoenix) Arizona Republic "Championship or no championship, it's time to move on." Barkley cited back problems and recent allegations of instigating bar fights as partial reasons for retirement. After this season, Barkley may move back to his native Alabama and try his hand in politics. He said, "I want to get in a situation where I can help people. Successful people should help the less fortunate. Unfortunately, in our society; the rich take care of the rich and screw the poor." It was a typical example of Sir Charles' candid comments about society, uncensored as usual, which capture the flavor of the man.

Just when Golden State coach Don Nelson thought it couldn't get any worse, rookie phenom Chris Webber went down with a sprained ankle in a game against Detroit. Already having lost Tim Hardaway and Sarunas Marciulionis for the season to knee injuries and Chris Mullin until the middle of December due to a torn ligament in his hand, the Warriors are counting on production from former Michigan Wolverine. He has excelled, averaging 15.3 points (3rd on the team) and 10.4 rebounds to complement 52.3% shooting from the floor. He also has delivered six double-doubles and 28 dunks.

Another rookie standing out from the crowds is the Dallas Mavericks' Jamal Mashburn. He is leading the

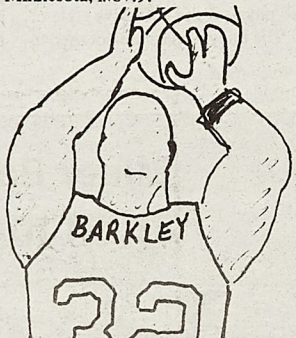


Mavs in scoring at a rate of 19.6 ppg despite a 41.4% field goal shooting and also has corralled almost five rebounds pre game. Other rookies making the grade include Nick Van Exel, third on the Lakers in scoring at 12.9 ppg along with 84 assists, and Anfernee Hardaway, averaging 11.3 ppg and managing 60 rebounds and 59 assists in his first 11 games.

The NBA Honor Roll: 44, Patrick Ewing at Cleveland, Nov. 7.

Most 3-point field goals: 8, Dan Majerle at the L.A. Clippers, Nov. 9.

Most rebounds: 29, Rodman vs. Minnesota, Nov. 9.



Most assists: 19, Stockton vs. Detroit, Nov. 12 and Bogues vs. L.A. Lakers, Nov. 24.

Most blocks: 15, Shaq at New Jersey, Nov. 20.

Finally a sad farewell to Detroit's ultimate "Bad Boy" Bill Laimbeer. Hated by many players and respected by nearly as many, Laimbeer closes the chapter on a career in which Michael Jordan, Larry Bird, Charles Barkley, Robert Parish, and Bob Lanier, as well as his teammate Isiah Thomas have thrown punches at him. Not many players got as much production out of as little talent as Laimbeer.

West Virginia gets the shaft

Travis Dunnington
Staff Writer

When the college football season started in West Virginia this year, expectations were high. Dreams danced in the heads of their hillbilly fans of winning some games and drinking some beer. Not even the most "educated" of these Mountaineers could have imagined a run for college football's national championship, though. Well, as it turns out, nobody else in the country could have seen West Virginia winning the national title, either.

Despite winning all of their games this year, the West Virginia Mountaineers go into their bowl game with absolutely no hope of being ranked the number one team in the country. How can this be, you ask? Hasn't West Virginia done everything they could possibly do to be considered for a national title? Well, yes and no. It seems as though not only do the all-knowing coaches and journalist who decide on the rankings consider whether a team wins or loses but they also rank teams according to who they play and by how many points they win by.

So, not only did West Virginia need to win all of its games, but it should have embarrassed its opponents. You can only imagine the thinking done by the voters. "Gee, West Virginia only beat Missouri by four touchdowns, that

only makes them half as good as Texas A&M, who beat Missouri by ten touchdowns." The thinking is that if West Virginia was really a national championship caliber team their coach would have fired them up at half-time, urging his players to go out there and make the other team sorry it ever put on football pads. Didn't coaches used to show respect for their opponents by not running up the score? Chalk another one up for "sportsmanship" in college athletics. (By the way, after Notre Dame thoroughly humiliated Boston College last year by running up the score, it was very fitting that it is Boston College who, by beating the Fighting Irish a few weeks ago, have prevented Notre Dame from winning the national championship.)

The voting coaches and sportswriters also contend that if West Virginia was truly deserving of a top ranking they would also have played a tougher schedule. Of course, college football teams make up their schedules years in advance and for the most part can't predict the future of college football. West Virginia played Miami (usually one of the country's best teams), Boston College (they knocked off Notre Dame in South Bend), and Syracuse and Louisville (who were ranked in the top 20 when they played West Virginia). There just wasn't much more West Virginia could have done, schedulewise, to please the pollsters except to have played Florida State.

It all comes down to the fact that,

because virtually no one considered West Virginia a good team at the start of the year, they were not even ranked in the top twenty until several weeks into the season. This made West Virginia's task of rising to number one that much harder during the year. To prove this, the Nebraska Cornhuskers have also gone undefeated this year but because they were ranked high at the beginning of the year they are presently ranked number one. Nebraska's schedule was not any tougher than West Virginia's but because they started the year at a higher ranking, most have the perception that they are a better team than West Virginia.

If West Virginia is to win the national championship they must beat the team they play in the Sugar Bowl by 10-15 touchdowns and hope that Florida State either beats Nebraska by a small amount or ties at the Orange Bowl. What will probably happen is that both West Virginia and Florida State will win on New Year's Day with Florida State winning the national title. In that case, West Virginia will complain until they are blue in the face and next year this team will lose its class and begin to run up scores on its opponents in an effort to gain more respect from the voters. And if running up the score and embarrassing opponents is part of being voted the national champion, then just maybe we should take the power away from the writers and give it back to the athletes in the form of a national playoff system.

EXTRA CASH!!

INTRAMURAL SPORTS OFFICIATING is a great way to meet new friends, pick-up strong leadership and sports knowledge skills and improve one's self-confidence while at the same time, making some extra money working on campus at hours you select. Training clinics will be scheduled prior to a season's start and cover rules, mechanics and procedures. Individuals may officiate and play in the same sport. Officials can average 10-15 hours a week, and can work around class schedules. Experience preferred but not required.

CONTACT: ROB HOLDER

INTRAMURAL OFFICE -- 341-4106

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CHAOS

by Brian Shuster



"You think you're some kind of wise guy, eh? You hear this, Vinny... he thinks he's a real wise guy!"



"Still won't talk, huh? OK Mugsy, turn the thermostat up to 60."



"Dinner will be ready in a minute honey."

Pathetic Geek Stories

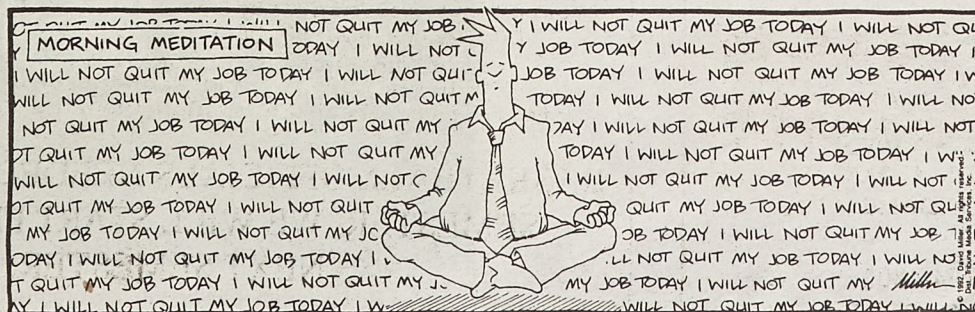
Send yours in care of this newspaper!



Although he dreaded the catching part, Slither loved the times when he got to play frisbee with Frank and the dog.

Dave

by David Miller



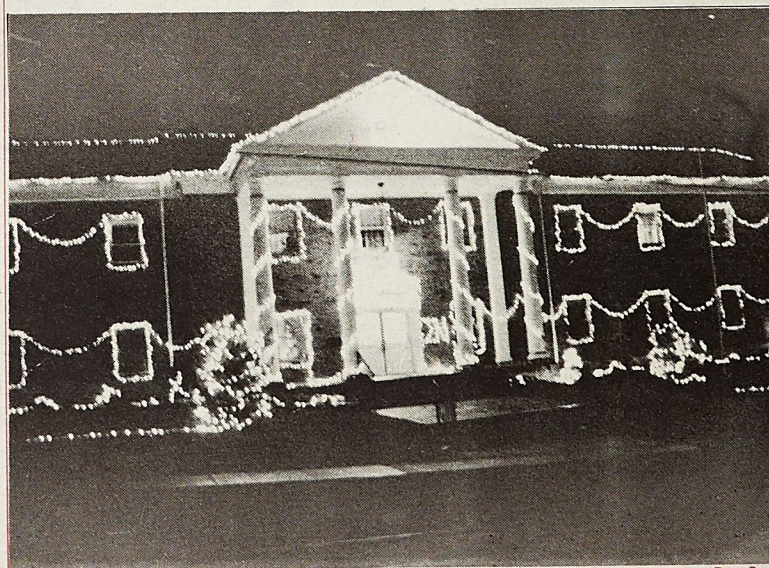
Merry Christmas

'Twas the Week Before Finals

'Twas the week before finals, and all over campus,
 Not a student was sleeping, they were all in the labs;
 The computers were humming busily
 In hopes that deadlines would be beat.
 I'd just settled down to a computer terminal,
 Hoping this time would be the final;
 Only a few more changes to make
 Then done would be my semester project.
 I logged on with my ID and password,
 When I discovered something absurd;
 All my defaults had been disturbed,
 My screen was the color of mustard;
 And all my files, they were gone!
 Who could have done this grievous wrong?
 The helpdesk person overheard my plight
 He said, anyone who could guess your password might.
 Such people exist, sad as it may be
 So you must take precautions against their debauchery.
 Choose your password with the greatest of care,
 To use a name, place, or common word, you shouldn't dare;
 Usually a combination of letters and numbers will do.
 By the way, your password should be kept secret too;
 Don't even tell your best buddy,
 He may change your defaults, thinking it funny.
 How do I change my password today?
 Type *dirm pw* at the ready prompt when using UMRVMA;
 Use *passwd* for Unix and *setpass* for Novell.
 Choose wisely so you won't have a story like mine to tell.



Brightening up the Christmas season



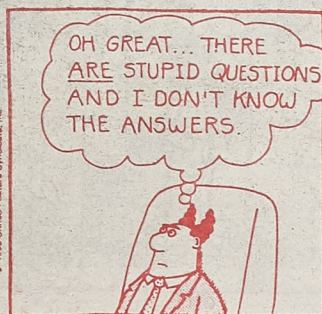
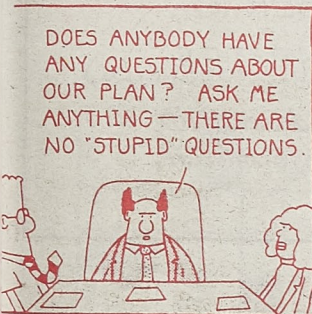
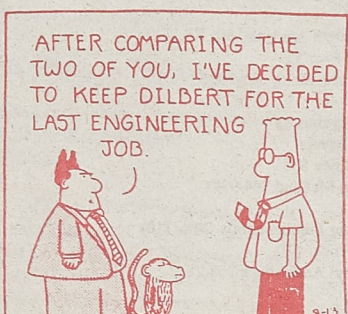
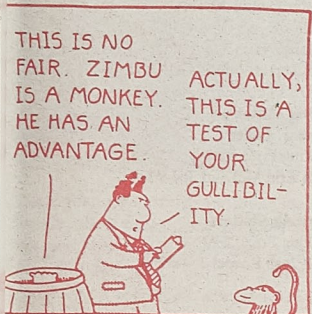
Sigma Nu Fraternity has begun celebrating the Christmas season by decorating their house for all to enjoy.

Brett Saunier

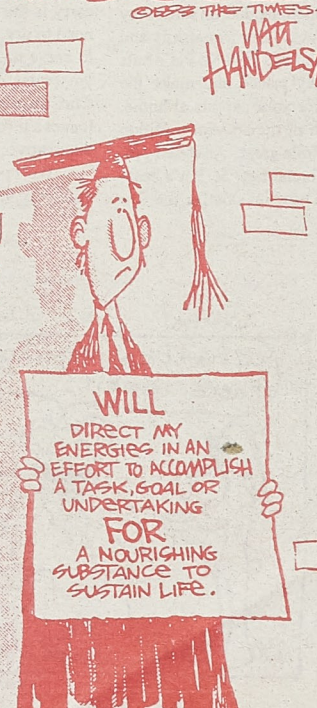
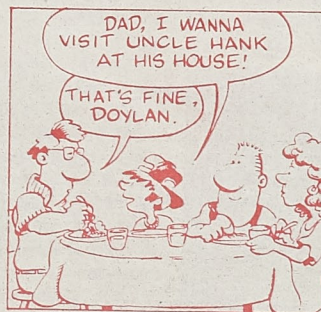
Happy Holidays

S. Adams

by Scott Adams



GUY STUFF® by Jim Ryan



Books

Management for Productivity (Engr. Mgt. 314)
Author: John Schermerhoen
Asking Price: \$42 (paid \$61.25 at Bookstore)
Call Srinivas Nemani 364-7495 or 368-3089

Materials & Processes in Mfg.
Asking Price: \$40
Call John Lucian 364-5174

ME 153
Asking Price: Negotiable
Call Clay Cooper 341-3657

ME213-Machine Dynamics
Asking Price: \$25
Call Kevin Lutin 364-4957

Mechanical Engineering Design
Asking Price: \$50
Call Bret 341-8951

Mechanics of Materials
Author: Hibbeler
Asking Price: \$35
Call Erin McLaud 364-9384

Met 121
Asking Price: Negotiable
Call Clay Cooper 341-3657

Microcomputers in Education
Asking Price: \$2
Call B. J. Shrestha 341-3883 or 341-6551

Missouri-The Heart of the Nation
Asking Price: \$15
Call T. Scott 368-5576

Modern Physics
Asking Price: \$20
Call David Hamlin 341-9111

Numerical Methods for Math, Science, Engr.
Asking Price: \$50
Call Bret 341-8951

Operating System Concepts
Asking Price: \$45
Call Joe 341-8951

Pascal
Author: Savitch
Asking Price: \$2
Call B. J. Shrestha 341-3883 or 341-6551

Pascal Plus Data Structures
Author: Hughes
Asking Price: \$5
Call B. J. Shrestha 341-3883 or 341-6551

Pascal
Author: Dale & Orshalick
Asking Price: \$2
Call B. J. Shrestha 341-3883 or 341-6551

Physics Lab Book
Asking Price: \$10
Call Daryl Andershock 368-2842

Physics 25
Asking Price: \$32
Call Jawad Akhtar 368-3563

Physics 2nd Edition
Asking Price: \$40
Call Daryl Andershock 368-2842

Physics-For Phys. 23 & 24
Author: Young
Asking Price: \$50
Call Matt Benz 341-8654

PL/I Structured Programming
Author: Hughes
Asking Price: \$5
Call B. J. Shrestha 341-3883 or 341-6551

Power System Analysis & Design (EE 207)
Asking Price: \$45
Call Matthew Roos 364-8575

Principles of Micro Econ. & Workbook
Author: Henderson/Poole
Asking Price: 50% off Bookstore's price
Call Erwin Wardojo 341-8634

Principles & Applications of Electrical Engr.
Asking Price: \$50
Call Michael Atkinson 341-9924

Probability & Statistics (for Engrs/Scientists)
Asking Price: \$40
Call Michael Atkinson 341-9924

Probability & Statistics (Stat 215)
Asking Price: \$50
Call Matthew Roos 364-8575

Quantitative Analysis, 5th Ed.
Asking Price: \$5
Call Vernon Smith 341-9076

Social Psychology
Author: Myers
Asking Price: \$35
Call Erin McLaud 364-9384

Surveying Fundamentals (Min 110)
Asking Price: \$30
Call Daryl Andershock 368-2842

The Accomodating Reader
Asking Price: \$10
Call Josh Buedel 364-8968

The C Programming Language, 2nd Ed.
Asking Price: \$20
Call Edward Joe 368-4846

The Science & Engineering of Materials
Asking Price: \$35
Call John Lucian 364-5174

The Social Fabric
Asking Price: \$15
Call Andrew Barnes 341-8785

Turbo Pascal Reference Manual
Asking Price: \$5
Call B. J. Shrestha 341-3883 or 341-6551

Turbo Pasa 7.0
Asking Price: \$30
Call Andrew Barnes 341-8785

Underground Mining Methods
Asking Price: \$25
Call David Hamlin 341-9111

Using AutoCad
Author: Fuller
Asking Price: \$20
Call Erin McLaud 364-9384

Writing Matters
Asking Price: \$10
Call Josh Buedel 364-8968

St. Pat makes Christmas easy



Rob Wilson
Staff Writer

Here are some final thoughts for the end of the semester from the St. Pat's Committee. First of all, Christmas shopping is made easier thanks to the St. Pat's merchandise on sale every day at the Puck. Our sweatshirt and sweatpants and the 1994 St. Pat's hats are reasonably priced and make the perfect gift for your parents at home. Give a touch of the 86 year tradition that makes Rolla great. As stated previously, the brand new St. Pat's baseball hats are now on sale for the low

price of only \$7 and they look great. Stop by and take a look, they are the perfect stocking stuffers.

Secondly, registration for cudgel entries must take place before the end of this semester. To register, you must call James Reiter at 364-9783. By now the trees should be inside and cut, ready to dry out over the long Christmas break. Remember, the cudgel carry is thirty long yards, so the trees need to dry. Also, dry wood is easier to carve on. Be thinking about what you want on your cudgel over the Christmas break. An animation theme leaves a lot of room for imagination, so be creative.

We're getting closer by the second, only 99 Daze to go!

SUB Presents

Katherine Davis
and
Sidney James Wingfield

performing a hot program
of classic and Chicago blues,
R&B, gospel, and jazz

FRIDAY, DECEMBER 10
8PM LEACH THEATER

FREE to students with a valid ID
call 341-4220 for more information



Goatee

is both full and complicated and at the same time seemingly loose and unrehearsed. Few bands could hold together piano, guitar, ukulele, banjo, fiddle, National steel guitar, washboard, bass, mandolin, and 4 and 5 part harmonies the way the Sheiks do. I have come to treasure their live sound.

The music ranges from Memphis Minnie and Bessie Smith style bar-room blues (almost always about sex in one way or another) to a beautiful rendition of Richard Thompson's "Dimming of the Day" to the upbeat fun of "Dance around in Your Bones."



Rather than doing original tunes, the Sheiks collect tunes from old recordings and turn these tunes into their own. But they aren't satisfied to just reproduce. The Sheiks are a seven piece band, and they expand the music to take full advantage of all seven members.

If anyone stands out on this recording, it's Alice Spencer on the vocals

and Marc Rennard on fiddle. Spencer treats the microphone like a lover, and Rennard must have been inspired during the recordings. His stylings add highlights to the mix at every turn. And the rest of the band are certainly no slouches. The Geyer Street Sheiks are really a blues and folk super group. Most of the members (such as blues man Tom Hall and former members of Spatz) have been gigging for 15 or more years, and that experience shows both on the album and in their live performances. Seek out the Geyer Street Sheiks before they make it big. It will be worth your while. If you can't get to St. Louis to pick up a CD, then write to BJAM records, P.O. Box 13245, St. Louis, MO 63157. And... mark your calendar now. The Sheiks will be playing at the Blue Heron Rookery on January 28th.

Album Review

The Lemonheads Come on Feel...
Atlantic Records (1993)
9 Goatees

"If I was your body, would you still wear clothes? If I was a booger, would you blow your nose? Where would you keep it? Would you eat it? I'm just trying to give myself a reason, for being around"

Yeah, old "Alterna-hunk" Evan Dando asks some time worn questions in "Being Around." It's a love song if you hadn't guessed. The Lemonheads

are back, and they're as fun as ever. The only way poor Evan could sell albums in the past was to cover some old 60's feel-good hit. Well, this time he doesn't need it. MTV has picked up "Into Your Arms," and Lemonheadland is a better place.

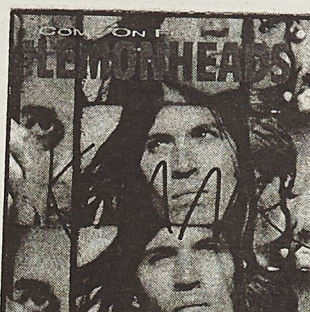
The success of the Lemonheads hasn't come strictly on the coattails of covers such as "Luka" and "Mrs. Robinson." In Dando's long trip, he's learned a few things about making great garage pop music. Like last year's It's a Shame About Ray, Come on Feel the Lemonheads is a tour de force of catchy lyrics and spunky tunes sprinkled with a few mellow "downer" songs.

The only big change from Ray is that Dando has found out about the wonders of "Country Music". Rather than play only garage pop with a few mellow acoustic numbers and a heavy leaning to sixties sensibilities, Dando scales down his sound a bit and adds pedal steel here and there. But it isn't real country music. (I don't think "Big Gay Heart" would ever show up on a

country album.) It's still the same jangly stuff the Lemonheads have always made. But unlike many garage pop acts, Dando has been smart enough and brave enough to bring his music out of the garage and pepper it with musical ability and writing depth.

The sound is still light, fun, and raucous, but it also has a ton of talent and a big heaping of pop sensibility. As

"soul mate" Juliana Hatfield heads down a path blazed by the early Lemonheads, Dando seems headed towards Hatfield's pure pop ala her old band the Blake Babies. At least, that's my take on it. But maybe it's just that



Hatfield sings on over half of the tracks. (Okay, just what is this Juliana/Evan relationship thing all about anyway? Does anyone know? And what does "It's About Time" mean?)

Anyway, this is another great Lemonheads album. Dando includes no less than 15 pictures of himself in the album notes. (All of you who drool over the "Alterna-hunk" won't be disappointed.) The new album is a bit slower than It's a Shame About Ray, and Dando continues to ooze more pop than is allowed in 17 states. You'll find yourself singing along and bopping your head right away. So don't wait one more bit... Come on Feel the Lemonheads!

from page 6

Next week: Have a nice finals week, a Merry Christmas, and till next semester, I am outta here...

Notable albums of the semester

10 Goatees

Sheep on Drugs - Greatest Hits Sweet Relief - A Benefit for Victoria Williams My Life with the Thrill Kill cult - 13 Above the Night Grace Jones - "Sex Drive" (single)

9 Goatees

Austin Lounge Lizards - Paint me on Velvet P J Harvey - Rid of Me the Juliana Hatfield three - Become What You Are The Connells - Ring Matthew Sweet - Altered Beast Melissa Etheridge - Yes I Am Smashing Pumpkins - Siamese Dream Slim Dunlap - The Old New Me

2 Goatees

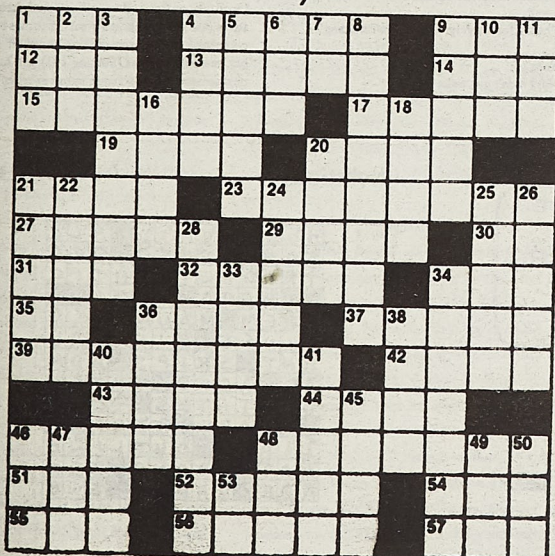
Sara Debell - Grunge Lite Adam Sandler - They're all gonna laugh at you

Goatee Rating System

- 10 - Phenomenal
- 9-8 - Excellent
- 7-6 - Good
- 5 - Acceptable
- 4-3 - Poor
- 2-1 - Landfill Material
- 0 - So terrible, you must have it...

Time Killers

Crossword Companion



ACROSS

1. Gardener's tool
4. To assist
9. Total
12. Add up
13. Left-hand page of book
14. Ocean
15. Poseidon's forked weapon
17. Oracular
19. Roman emperor
20. Half
21. Not us
23. Well-behaved
27. Wash
29. Coffin stand
30. Gold symbol
31. Adjective suffix
32. Hops
34. Naval officer (abbr.)
35. Midwest state (abbr.)
36. Dissolvent
37. Indian pole
39. Issues commands
42. Small horse
43. Twisted hemp
44. Organized group
46. Beast of burden
48. Synopsis
51. Consume
52. Play
54. — Buddhism
55. Presidential nickname
56. Belongs to Wynn
57. Female sheep

DOWN

1. Presidential initials
2. Belongs to us
3. Prominent
4. Declare
5. Poison
6. Oil drawing
7. Singular verb
8. Place for lovers (two words)
9. Mixed
10. Hawaiian garland
11. Shellac ingredient
16. Political party (pl., abbr.)
18. U.S.A. (abbr.)
20. Cut
21. Course of movement
22. India dialect
24. Await
25. Burden
26. Delicious
28. Reckless adventure
33. Flying toy
34. Scientific separation
36. Unit of matter
38. Precious stone
40. Wooden box
41. Truncate
45. 7th Greek letter (pl.)
46. Meadow
47. Scientist's workshop
48. Rowing implement
49. Novel
50. Direction (abbr.)
53. Sun god (Egyptian)

Campus Gossip

Micellaneous

Earn Extra Money! National non-profit student organization seeks graduate students for immediate on-campus distribution of information about its products and services. For more information call 202-547-4920.

SINGLE SIZE FUTON
\$80

SONY THREE WAY SPEAKERS
NO SPEAKER GRILLS
REPAINTED ENTIRELY BLACK
\$50
341-8417

WOULD YOU LIKE TO LEARN JAPANESE? I TAUGHT JAPANESE FOR A YEAR AT UMR. I WILL TEACH ON A ONE TO ONE BASIS. IF YOU ARE INTERESTED CALL 364-0598.

We, being a scientifically-minded community, should deductively reason better than most that all of the complex laws of nature could not come into existence and work in such harmony by chance alone. Therefore, a supernatural creator is the only reasonable explanation for life.

TimeRider

KMNR wants you. Radio station KMNR, 89.7FM, is now accepting applications for enthusiastic DJs of all shapes, sizes, and musical tastes. All students who have completed at least one semester at UMR with at least three semesters remaining are eligible to apply for the training program. If you are interested, pick up an application at KMNR which is located in the white building behind the ME Annex and in front of Harris Hall. Also, be sure to come to the first station meeting of the Spring 1994 semester which will be held on Tuesday, January 11 at 8:00p.m. in 107C of the ME Annex. Unfortunately, a limited number of trainees can be accepted during each semester, but everyone interested is encouraged to apply.

Personals

UMR T.E.C.H.S., Great job this semester! Happy Holidays...

C, M, & J

BRIAN BROSS,
THE WORLD IS FULL OF COLORS. TOO BAD YOU ONLY SEE BLACK AND WHITE

Who won the turkey at the GDI turkey Wake? When is dinner?

Rob-
I'm embarrassed but I don't regret it. I'd love to see you again.
-K

Q: WHAT'S DA HIT SQUAD'S FAVORITE COMMERCIAL?
A: THANK GOODNESS FOR CHEF BOYARDEE..... Kay!

OP-
Congrats on making the swim team!
-B.O.D.

Ron-
Figure it out yet?
B.O.D.

Tina-
How about mulberry lane for St.Pat's!

Has anyone seen the v.p?
Enquiring minds want to know

Nate,
Congratulations on being elected President!
YLS

Christy,
Thanks for being such a good example for me these past few years!
ZLAM,
FLUFF

Roger, do you know?

Lambda Sigma Pi is way cool!!!!
the pledges

Amy Sue-
We're going to miss you! Best of luck!!!!
-The Farnar Gang

Marty, Bill, and Ben-
You guys look like plaid, limp coneheads
Rob

Autrey-
I hear you are going to get a pie in the face - if you like practice, we would be glad to help!
George & Dakimbabe

Dakimbabe,
BSMAP! (Just in case you forgot)
George

Kay-Dee,
Good luck on finals!

Broleman,
You suck because you're graduating and leaving us young-uns behind.
The young one

Amanda,
ROADTRIP
Shoes

Mom,
Sorry I forgot to write you last week.
GEORGE

Mom,
Did I ruin your reputation?
George

Mom,
What reputation was that?
George

Stephanie,
I can't wait for that steak dinner

Congratulations to all of the new officers for Sigma Gamma!

Ben,
If you divide an 06 by 2, you get an 03, which is a captain- or a colonel's daughter, correct?
The babysitter

Cathy,
You definitely need some tolerance, babe.
The babysitter

Brian,
Your Training session is complete. You will be tested and given your official babysitting license as soon as possible.
The babysitter

Tigger, Cricker, Flakes, Shaw, Bash, Pondo, Gills, Noopy (Wonder Pledge), Super Pledge, Kiefer, Sid, Kappa Delta's most awesome pledges!
Shoes

Gills,
Good luck next semester- we'll miss you! We must roadtrip to Colo Spgs- I have a dinner to collect!
Shoes

Rondo, Bash, Gills,
Don't you just hate it when that happens?

Shoes

Kappa Delta is terrific!

Kristen,
I really like your boyfriend--- he has great taste!
YBS

Shelly,
Let's go visit Betty. I miss her bananas!
YLS

FTL-
You need more blankets. Your bathroom floor is cold.
FTR

Michelle (Gills),
It was great-let's so it again sometime....What are you doing this weekend?

Pepsi, anyone?

Dakimbabe,
How? Why?
George

Jen,
Nice fireplace.

Pat,
I'm completely infatuated with you. Wish we could party together more than once a semester though!

FTL,
I think you're the one who needs the huge bag of blow.
POPS- -FTR

Bill,
How are your porcelain worshipping abilities these days?
The babysitter

Mike,
Do you need to use the bathroom?
Kay-Dee Annex

Angie,
I'll miss you next semester, schnookums. Good luck on co-op!

Snees,
Hey! Your last personal ad! Congratulations on finally getting out of here. It's been great knowing you, and good luck in everything you do...

Eric,
Congrats on finally getting hitched. Don't forget to tell me when it is...

Bill,
You remember waking up, HOW?!!
TAFB

Blondie,
Congrats on surviving the tights (and the week) and doing a spiffy job. Now can I have my bass back?
Dagwood

Tim,
Although there are only a few days left until you graduate - - it will be an eternity for us until you are out of here!!!
-Mrs.Bo Duke and Mrs.Andre Agassi

T.Schroeder-
Thanks for the knowledge, the help, and the understanding. You are a wonderful homework buddy.
NOT!!!!
-Kim and Fauda

Meckelberg,
The front desk won't be the same without you, honeylumps. Hope to see you next year....

Bech,
Long time no Bech....

Camille,
Any new projects for me?

Congrats to the TJ and Quad intramural volleyball teams!

Raf,
SEE YA!! But who will I idolize now that you are leaving? Best of luck getting that job (remember Wal-Mart McD's is always looking for chemical engineers).....

Steve,
So you are finally outta here, too? After five years and two hundred resumes, you can finally work with Raf.
Good Luck!

Tuna,
Finally! A degree in aerospace engineering! May the Force be with you when looking for employment....

Nat,
That mistletoe you've got works wonders!

Sarah,
Thanks for a lovely evening, sweet thang!

Sheri,
No, I didn't just wake up!

Q: HOW ARE DA HIT SQUAD'S CLASSES THIS YEAR?
A: F...ED UPI

Dee-Kay,
You can Bump!
(But you can hit the ball over the net on the front line!)
Da Hit Squad

Ron-
I've still got a bucket water with your name on it.
-Steve

BOD,
I am the Tetris Queen!
PARTS

Stupid
Tyrannous
Underachieving
Conceited
Opportunists

Congrats on your presidency. Long live BSMAP!
George

Tigger,
I think the only way we are going to stay up all night is with BOOKS!
Shoes

Christy,
Order him to sleep, and you don't want to look in the bathroom.
The babysitter

FTL,
How many people can you fit in your bathroom?
FTR

Bill, Ben, FTL, Cathy, Brian, Christy,
Hot tamales, anyone? (I think we even have 2 or 3 varieties....)
The babysitter

Congratulations to Mindy Gardner on being elected Sig Gam pres.

Kirk,
Good luck in Kansas City next semester! You've worked really hard for this and I'm glad you finally got a job. I'll miss your sanity here, so expect some desperate phone calls from Rolla.
Come Visit,
The Chihuahua

Krista,
Congrats on being a Kappa Delta. We can't wait until next semester for your initiation. It's great to have you!
In Kappa Delta,
Your Sisters

Kappa Delta Council,
Get psyched for our retreat next semester. Get ready to plan for an awesome year!

Hey Kappa Delta's,
Good luck on finals. Remember to study hard and not stress (too much). Have a great Christmas break and come back ready for an exciting semester! Remember, remedial classes (Parking 101) will be offered next semester free of charge by our excellent faculty.

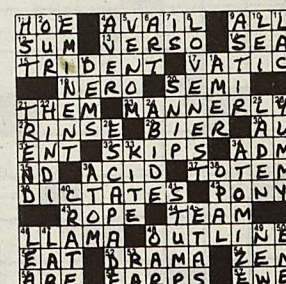
FUTURE ARCHAEOLOGY



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Solutions

from page 13



Aid

from page 2

All students who applied for federal financial assistance (i.e.: Pell Grant, Stafford Loan, Work Study, etc.) for the 93/94 academic year by completing a Free Application for Federal Student Aid (FAFSA) will soon be sent a 94/95 Renewal FAFSA to complete. Students are encouraged to complete the renewal FAFSA after January 1, 1994, but by March 31, 1994, to apply for federal financial assistance for the 94/95 academic year.

The Student Financial Aid Office, G-1 Parker Hall would be glad to answer any questions concerning how to apply for financial assistance for the 94/95 academic year.

Two publications by "The Wall Street Journal," and one by the U.S. Department of Labor's "Occupational Outlook Quarterly" are job search resources in the Career Opportunity Center that are worth looking into.

"The Wall Street Journal" publishes a college section each semester. The fall '93 edition is called "Managing Your Career" and it featured articles targeted to the new graduate's job search, such as, "Three Steps To Finding A New Job," "Interviewers Say No To Student Gimmicks," and "How To Survive Second Interviews." Copies may be picked up at the Career Opportunities Center.

The Center has also just started a trial subscription to "National Business Employment Weekly" published by "The Wall Street Journal." This weekly contains articles relevant to a career search. Recent article titles include: "Hiring Rebounds Among Specialty Chemicals Manufacturers," "How To Answer Employment Ads Successfully," and "Winning Interview Advice."

Applications are now being accepted for three postdoctoral fellowships sponsored by the U.S. Department of Energy's (DOE) Office of Health and Environmental Research and administered by the Oak Ridge Institute for Science and Education.

The Alexander Hollaender Distinguished Postdoctoral Fellowship Program offers fellowships in the energy-related life, biomedical, and environmental sciences as well as other scientific disciplines. Up to five new fellowships will be awarded with a first year stipend of \$37,500.

The deadline for the Alexander Hollaender Distinguished Postdoctoral Fellowship Program is Jan. 15, 1994.

Research topics include health and environmental effects associated with energy technology, biological and environmental processes, physical and technological research, and applications of energy sciences and technology.

Applicants must have received a doctoral degree or equivalent in an appropriate discipline after April 30, 1992.

The Human Genome Distinguished Postdoctoral Fellowships offer up to five new awards with a first year stipend of \$37,500 in disciplines of biology, chemistry, physics, engineering, mathematics, and information science.

The deadline for the Human Genome Distinguished Postdoctoral Fellowships is Feb. 1, 1994.

These fellowships seek to improve current methods and develop new ones for human chromosome mapping and for DNA sequencing. The programs also work to develop new instrumentation, effective software, and database designs in support of research areas of research, and to promote investigations aimed at understanding the ethical, legal and social implications of the United States Human Genome project.

Applicants must have received a doctoral de-

gree or equivalent in an appropriate discipline after April 30, 1991.

The Global Change Distinguished Postdoctoral Fellowships offer research opportunities related to the U.S. Global Change Research Program, which addresses the following strategic priorities: observation and data management, process research, integrated modeling and prediction, and assessment.

Up to 12 new awards will be made with first year stipends of \$35,000. The application deadline is Feb. 15, 1994.

Applicants must have received a doctoral degree or equivalent in an appropriate discipline after May 31, 1991.

All awards will be made by June 1993. Selection is based on academic records; recommendations; compatibility of background and scientific interests with the needs of the research center and the mission of DOE; and the availability of funds, programs, staff and facilities.

Fellows will have the opportunity to conduct research at qualifying federal and university laboratories in the United States.

The programs are open to all qualified U.S. citizens and permanent resident aliens without regard to race, sex, religion, color, age, physical or mental disability, national origin, or status as a disabled veteran or veteran of the Vietnam era. To request an application packet, write to Science/Engineering Education Division, Oak Ridge Institute for Science and Education, P.O. Box 117, Oak Ridge, Tenn. 37831-0117, or call (615) 576-9975.

The Oak Ridge Institute for Science and Education (ORISE) carries out national and international programs in science and engineering education, training and management systems, energy and environment systems, and medical sciences. ORISE conducts these programs for the U.S. Department of Energy through a management and operating contract with Oak Ridge Associated Universities (ORAU). Established in 1946, ORAU is a multi-university consortium.

The DuPont 1994 Plunkett Students Awards for Innovation with "Teflon," sponsored by DuPont, is designed to recognize the best examples of student innovation in fluoropolymer technology. With an overall prize purse worth \$30,000, the competition will evaluate new applications for the family of "Teflon" fluoropolymer resins developed by students pursuing degrees in accredited trade schools, technical institutes, colleges, and universities in the United States.

The student awards, endorsed by the Industrial Designers Society of America, will be held in alternating years with the biennial DuPont Plunkett Awards for Innovation with "Teflon," which are conducted at the corporate level. The competition was launched in May, 1993, with entries to be judged in January 1994.

A six-member independent panel of distinguished scientists, journalists and industrialists will judge the competition. NASA Space Shuttle astronaut Nancy J. Sherlock, Major, U.S. Army; Dr. Emanuel Horowitz, Professor, Johns Hopkins University and National Institute of Standards and Technology Gold Medal Recipient; James E. McGrath, Director, Center for High Performance Polymeric Adhesives and Composites, Department of Chemistry, Virginia Polytechnic Institute and State University; Lawrence Maloney, Chief Editor, Design News; Drew C. Azzara, Director, America Society of Testing and Materials, and Hugh Patrick Toner, Vice President, The Society of the Plastics Industry, Inc. make up the judging panel.

Winning entries must demonstrate both innovation and potential for commercialization that can open or expand markets for fluoropolymer technology. Students are required to submit a prototype, or a paper on a reducible-to-practice application, both with supporting information, using either Teflon or Tefzel fluoropolymer resins. The competition will be judged by an independent panel of qualified experts from the plastics industry, industry associations, the industrial trade press, and academia.

The First Place winner will be offered an option: a summer internship, valued at approximately \$10,000, in DuPont Fluoropolymers, or a \$3,000 cash award. Second and Third Place winners will earn cash awards of \$2,000 and \$1,000 respectively. The top three winners as well as the winners of the ten Honorable Mention awards, will receive all-expense-paid trips to the Awards event. Scholarships will be awarded to the schools of the top three prize winners. Cash honorariums will be given to the faculty sponsors of winning students, and cash awards will be given for ten honorable mention selections.

The DuPont 1994 Plunkett Student Awards for Innovation with Teflon also seeks, as appropriate, to match students with customer fabricator advisors to provide additional consultative assistance in the preparation of their entry. Scholarships to the institutions of choice of the customer fabricator advisors of the winning students also will be awarded.

Full-time students, working individually or in teams, are eligible to enter. The competition is open to juniors, seniors and graduate students. A sponsorship is required. The deadline for submissions is January 14, 1994.

To obtain information or an entry form 800-432-7536, or write The DuPont Plunkett Student Awards, Suite 550, 400 North Capitol Street, W., Washington, D. C., 20001.

Students considering the continuation of educational careers should look to the Department of Energy for a helpful hand. Tens of thousands of dollars are available for students interested in pursuing master's or doctoral degrees in such areas as fusion energy, applied health physics, radio waste management, and industrial hygiene.

Graduate fellowship programs sponsored by the U.S. Department of Energy and administered by the Oak Ridge Institute for Science and Education provide full payment of tuition and fees, most stipends, and the opportunity to gain practical experience at a DOE laboratory. Awards vary depending on the specific program and the degree being pursued. All programs require the submission of a fellowship application and completion of the Graduate Records Examination. Students must receive their undergraduate degrees in a science or engineering discipline by August 1994.

Selection is based on academic performance, recommendations, and a statement of career goals by the applicant.

Fellowship applications are being taken through Jan. 31, 1994, and awards will be announced in May 1993. For applications or additional information, contact Sandra Johnson or Marcia DeMaio, ORISE Fellowship Programs, Oak Ridge Institute for Science and Education, Science/Engineering Education Division, P.O. Box 117, Oak Ridge, Tenn. 37831-0117, or call 1-800-569-7749.

The Oak Ridge Institute for Science and Education (ORISE) carries out national and international programs in science and engineering education, training and management systems, energy and environment systems, and medical sciences. ORISE

conducts these programs for the U.S. Department of Energy through a management and operating contract with Oak Ridge Associated Universities (ORAU). Established in 1946, ORAU is a multi-university consortium.

PETER D. COURTOIS CONCRETE CONSTRUCTION SCHOLARSHIPS. Two \$1,000 (U.S.) awards are available through the ACI Concrete Research and Education Foundation (ConREF) for undergraduate study in concrete construction for the 1994-95 academic year.

REQUIREMENTS:

These awards are open to any undergraduate student in the United States or Canada. The student shall have achieved senior status in a four-year or longer undergraduate program in engineering, construction, or technology during the year for which the awards are presented. The awards will be made on the basis of demonstrated interest and ability to work in the field of concrete construction.

The student must have a course load of 6 or more credit hours each semester during the period for which the award is made. The student must be a senior during the year for which the award is made (not necessarily at the time of application). Transcripts, recommendations, and an essay must be submitted as outlined on the application form. Application available in the Student Financial Aid Office, G-1 Parker Hall.

COMPLETED APPLICATIONS MUST BE RE-

CEIVED IN DETROIT NO LATER THAN JANUARY 29, 1994.

Society for the Advancement of Material and Process Engineering (SAMPLE) offers Undergraduate Scholarship. These awards are for recognition of past and present college scholastic and technical achievement and future potential. Consideration also is given to specific courses of study, academic awards and honors received, work experience, campus, and community activities, and a written dissertation demonstrating the student's knowledge in processing and materials technology as related to the applicants field of study.

REQUIREMENTS:

- This award is restricted to those pursuing a BS in engineering in an institution accredited by EAC/ABET or CEAB.

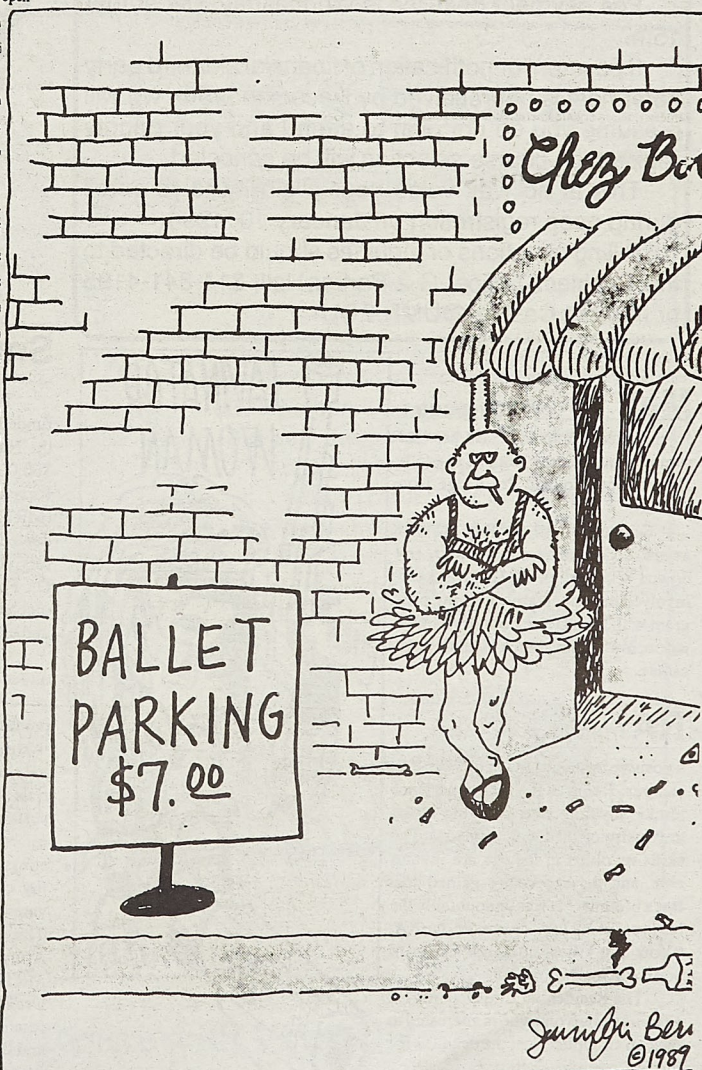
- The applicant must be a full-time student in one of the accredited EAC or CEAB programs listed for the attended institution with at least one semester of grades in the program by February 1, 1994.

- The applicant must be recommended by his or her department head.

- The applicant must have a 3.30 minimum cumulative grade point average based on 4.0.

- High school and seniors are not eligible. 1994 Awards: 1st Place: - \$5,000; 2nd Place: - \$2,500; up to 25: - \$1,000.

Application must be post marked no later than February 1, 1994.



UMR listed in Princeton Review



News Services
SOURCE

Rolla, Mo. — The University of Missouri-Rolla is one of four Missouri campuses to be listed in "The Princeton Review Student Access Guide — The Best 286 Colleges."

The book compiles facts and figures about the nation's top colleges, plus inside opinions based on findings of a survey of 40,000 students about their colleges.

About 100 students from each college in the book were polled at random. The students answered multiple-choice questions about their schools' academics, administration, campus life and more. From this data, the authors - Tom Meltzer, Zachary Knowler, Edward T. Custar and John Katzman - developed college rankings in 61 categories, such as best academ-

ics, best social scene and least appetizing dorm food.

For each campus, the book offers a two-page analysis that discusses academics, campus life, the students, admissions and financial aid. The book also lists "what's hot" and "what's not" for each college.

The Princeton Review says UMR "offers a fine engineering education at public school prices" and adds: "Most Rolla students are engineers, and accordingly, they study almost incessantly."

Among the hot items at UMR are "studying hard," "conservative politics" and "profs (who) teach upper courses."

Other Missouri campuses in the guide are Northeast Missouri State University, St. Louis University and Washington University in St. Louis.

"The Princeton Review Student Access Guide" is published by Villard Books and is available in paperback for \$17. The book is available in most major bookstores and also through a toll-free number: 1-800-733-3000.

REGISTRATION REMINDER 1994 WINTER SEMESTER

Fee payment deadline is Wednesday, December 15th.

If payment or notification of financial aid/third party deferment is not received by December 15th, we will presume you do not plan to attend and your priority registration course selection will be canceled.

This in no way voids your eligibility to re-enroll during open registration on January 10, 1994.

Billing questions or inquiries should be directed to the Cashier's Office, G-2 Parker Hall, 314-341-4195 or Internet Cashier@UMR.EDU

Met

from page 1

Jr. endowed scholarship. He has had summer internships with Kenecott-Utah Copper Co. and Pea Ridge Iron Ore Co.

Schott received the Ray H. Witt award, a George W. Mathews Jr. endowed scholarship. Schott has been involved in a cooperative training program with John Deere Foundry in Waterloo, Iowa during much of his college career.

RA from page 1

a positive influence in the halls and on campus. Being an RA is an experience unlike anything else available at the university or in the workplace. The skills involved in the job are invaluable, and the experience gained will last a lifetime. "It was undoubtedly the best year of my life," remarked one RA. "You can't describe the job until you've actually done it."

The Residential Life Department encourages anyone who is interested to pick up an application; the deadline for turning one in is February 18, 1994. Apply today!

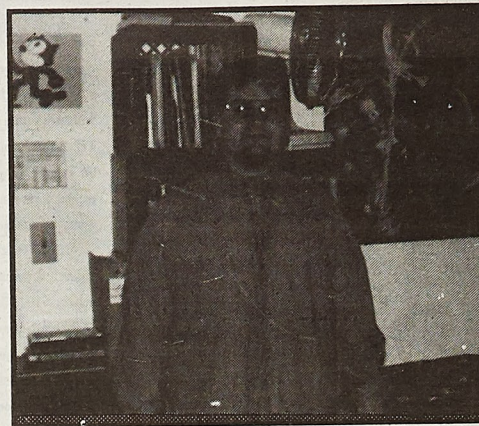


Student awarded for genetics research

K.C. Snyder
Staff Writer

Larry Polk, a senior majoring in Life Sciences, just won an undergraduate research competition for his molecular genetics paper, entitled "The verification of the isolation of the chalcone gene from *Glycine max*." The prize for the competition, which was sponsored by the University of Illinois at Chicago, included a \$250 cash prize, an expense-paid trip to visit the U of I campus, and the opportunity for Mr. Polk to present his findings to the U of I graduate student faculty. The competition was open to any undergraduate student who had done research in genetics.

Prior to writing the paper, Larry conducted an experiment in which he isolated a gene found in soybeans that protected the plants from sun-



Jason Hansen

Larry Polk wins Scholarship for undergrad. research.

light and pathogenic infection. His experiment verified the findings of Dr. Frank, a Life Sciences professor who had already isolated the gene in his own research.

Larry entered the competition at the request of Dr. Frank and completed his paper the weekend before the November 1 deadline.

"Dr. Frank brought the competition to my attention and wanted me to submit a paper on the gene-isolation research I had done. I was having a bad week and thought twice about doing it, but I decided to do it at the last minute. I didn't think I was going to win," said Mr. Polk. He got a phone call in late November announcing that he had won the competition.

Mr. Polk plans to study molecular genetics at either the University of Chicago or U of I-Chicago after he graduates next December.

He is currently the Vice President of the Helix Club, which is involved in Adopt-A-Stream and runs a program called "2+2" that helps Girl Scouts build interest math and science. Helix is intended for biology majors, but any student at UMR can join. There are about 80 L. Sc. majors at UMR.



Smart

from page 4

The U.S.-Korean venture is funded through a \$245,000 grant from the National Science Foundation and \$60,000 from UMR's Manufacturing Research and Training Center (MRTC). The research is being conducted by Dr. Franklin Cheng, Curators' Professor of civil engineering; Dr. Frank Liou, assistant professor of mechanical and aerospace engineering and engineering mechanics; and Rao.

Other smart structures research under way through the ISC includes:

—Development of a "shape-memory alloy" — a temperature-sensitive material that remembers its original shape and returns to it. Such materials will be able to control damage sustained by and aircraft component by redistributing the load around stressed portions of the structure, or they could be used in thermally activated valves and switches in factories. This \$478,000 project, funded by the Army Research Office (ARO) and the MRTC, is being conducted by Rao; Dr. Thomas J. O'Keefe, Curators' Professor of metallurgical engineering; and Dr. Leslie R. Koval, professor and associate chair of mechanical and aerospace engineering and engineering and

engineering mechanics.

—A project by Rao, Koval and O'Keefe to fabricate and control "superlattice" smart structures. Superlattices are tiny multilayer structures measured in "nanometer," or billionths of meters, created by depositing two different materials in a series of alternating layers. Scientists believe the structures, which possess unusual properties because of their small size, hold promise as new materials for optical communications, superstrong metals, computer and electronic systems, and superconductors. The project is funded by a \$102,000 ARO grant.

—Another shape-memory alloy project in which O'Keefe is using electrochemical techniques to synthesize an alloy. The National Science Foundation (NSF) is funding this research through a \$310,000 grant.

—Development of methods to control smart materials with artificial neural networks. A form of artificial intelligence, neural networks are computer systems that learn and solve problems through trial and error, reprogramming themselves based on information they pick up from their

environment and experiences. The research, funded by a \$324,000 ARO grant and \$114,275 from the MRTC, is being conducted by Rao; Dr. Romesh Batra, professor of mechanical and aerospace engineering and engineering mechanics; and Dr. Levent Acar, assistant professor of electrical engineering.

—A project funded by a \$180,000 NSF grant to develop interdisciplinary courses in smart structures under the NSF's "Combined Research-Curriculum Development in Technological Areas of National Importance" program. A team led by Rao, Koval, Acar and aerospace engineering and engineering mechanics, is incorporating research into the curriculum of several UMR engineering disciplines.

—A study of damage assessment and control of smart structures, funded by a \$39,300 grant from the University of Missouri Research Board and conducted by Dr. Steve Watkins, assistant professor of electrical engineering; Dr. Anthony C. Okafor, assistant professor of mechanical and aerospace engineering and engineering mechanics; and Chandrashekhara.

search

Frank brought
competition to my at-
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late November an-
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competition.
Polk plans to
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for the University of
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e Vice President of
hich is involved in
and runs a program
helps Girl Scouts
h and science. He
biology majors, but
IR can join. There
c. majors at UMR.

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Sunday 8:00 am - 1:45 am

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• 2,608 gallons of gas

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• 3,260 fast food hamburgers

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• 1,304 movies

• 260 concerts

• 4,346 school lunches

• 65 ski trips

• 6,520 soft drinks

• 1,862 pizzas



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all week. Took two today. And
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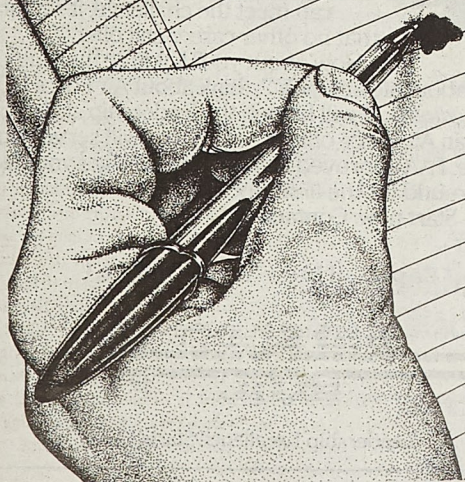
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Use only as directed. Contains caffeine equivalent to 2 cups of coffee.

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PHILOSOPHY 101
Take-Home Exam

Compare and contrast the dialectic of
phenomenology as revealed in the work
of Hegel, Kierkegaard and Nietzsche.
(Use additional blue books as necessary.)





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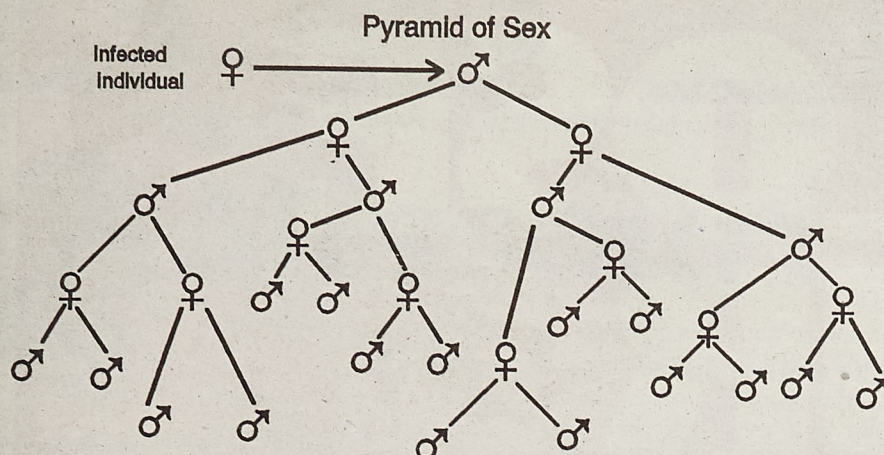
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Do you know every person you have sex with when you have sex??

December is AIDS Awareness Month

20% of College Students are believed to be infected with the AIDS virus

A message from UMR T.E.C.H.S Peer Educators-106 Norwood Hall

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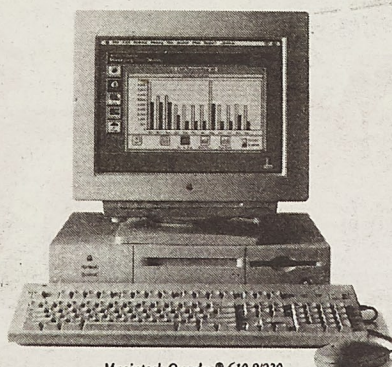
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